THE OREDIGGER

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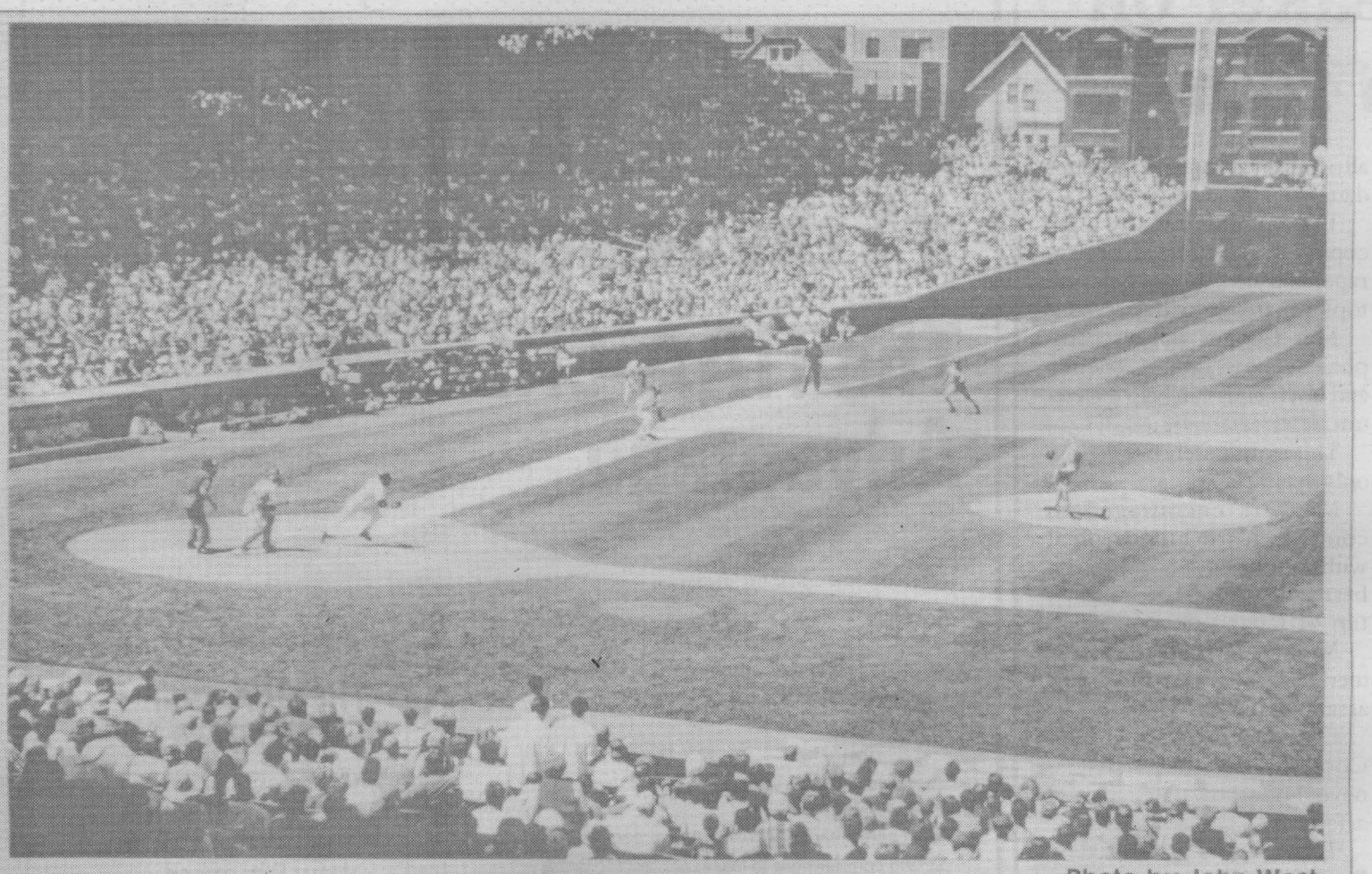
THE VOICE OF COLORADO SCHOOL OF MINES, A SUPERIOR EDUCATION IN APPLIED SCIENCE AND ENGINEERING



The boys of summer are back!

Photo by John West

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Center For Technology and Learning Media

Tim Newlin

CSM's next big thing will provide high-tech classrooms for progressive learning

Slated for occupation in Fall 2000, the Center for Technology and Learning Media is Mines' latest investment in progressive engineering education.

The center will house a lecture hall, physics lab, and several computer classrooms, all equipped with modern educational technology.

According to the program report from Anderson Mason Dale Architects, the primary goal for the new building is "to provide spaces and technologies that complement the School's current educational methodologies and anticipate future changes."

They cite flexibility as a key factor, which would allow the center to adapt when departments pilot new programs.

"This facility will enable faculty to inject technology into their teaching and pursue progressive teaching methods," said Vice President of Affairs Nigel Middleton, who is on the project's Steering Committee.

Guided by technology consulting firm Infrastructure Design Associates of Oakland, CA, the outfitting will include audio/video projection equipment, networked computing for instruction and demonstrations, and state-of-the-art lab instrumentation.

An important feature of the high-tech classroom building is the Authoring Center.

Staffed by a full-time employee, the office will provide facilities for the creation of web sites, audio/video productions and computer-based presentations.

Departments on campus are eager to move classes into the building, especially those that focus on a group setting.

EPICS program director Robert Knecht commented, "We will no longer have to limit lectures so that students can get over to the computer lab.

It will be a real enhancement to have a compromise between the grid-style computer lab and group work areas."

The Physics Department plans to move all of Physics 100 *into the Center, where they can* put into practice new educational techniques.

"Our Learning Studio teaching method is ideal for a technology-enabled classroom building.

The concept is actually to create an active-engagement environment in which lab experiments are only a small part of the total learning method," remarked Tom Furtak, physics professor and member of the studio lab focus group.

March Is Women's History Month

CSM celebrates Women's History Month in March with displays and posters placed around campus, a web site, a women's history luncheon featuring the women from the Florence Caldwell Centennial History Committee and a Women's History and Diversity Fair.

Displays are located in the library and outside room 324 in Guggenheim. Posters are located in each of the departments.

Details of the luncheon have not yet been finalized. The diversity fair will be held March 31 and will include food and music. For the most up-to-date information, check the web site at www.mines.edu/Academic/affairs/wisem/march.html. The web page also include links to other web sites of interest.

For a brief history of the first four women to receive degrees from Mines, see the Features page.

Inside this issue of *The Oredigger*

Entertaining Spring Break Ideas p. 5

Mission to Mars: Disney on Crack! p. 8

New! "Ask Cassia" Advice p. 10

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Date/Acquaintance Rape Speaker on March 20th

One in four college women will be raped before they leave college.

Chances are four times greater that she will be raped by someone she knows.

These scary statistics mean that it is extremely likely that if you have not experienced this type of aggression, someone you know and love has.

The Monday following spring break, March 20, Andrea Cooper will be speaking at Mines on the subject of date/acquaintance rape and depression.

Mrs. Cooper will begin telling her moving story at 7 p.m. in the Student Center Ballrooms.

She will share the struggles her daughter encountered after being sexually assaulted by a friend.

Mrs. Cooper will also share the struggles that she personally has encountered after her daughter's suicide.

The definition of date rape, coping with the effects of date rape, and how to get help are topics that will be discussed.

Mrs. Cooper will also emphasize how family, friends and boyfriends can help the victim.

This is definitely not a girls-only event.

Men are encouraged to come to learn how to deal with a girlfriend, a sister or a best friend that has been a victim of rape.

Many people also forget that men can be victims of sexual assault as well.

Come hear Andrea Cooper's talk because you never know how date rape will affect you.

This event is sponsored by Panhelenic Council, Interfraternity Council, and ASCSM.

Have You Filed Your Taxes Yet?

Sean Donlin

With tax time rapidly approaching, the Internal Revenue Service (IRS) has partnered with various private companies to offer taxpayers the option of filing both state and federal income taxes via their own personal computer.

This new and recent method, referred to as e-file, was designed to give taxpayers a more affordable, convenient and user-friendly option for filing.

The benefits of e-filing over the traditional methods are immense.

With e-file, refunds are sent in half the time and the chances of an error occurring on your return is reduced because e-file is more accurate.

You also receive proof from the IRS that your return has been accepted, not to mention the e-filing is cheaper and easier to use.

E-file is available to taxpayers through numerous software companies, online distributors, and authorized IRS e-file providers.

Here is a list of some of the place where you can obtain e-file information and file your taxes online.

Quicken Turbo Tax for the Web: (www.turbotax.com) Download the program for free and pay $9.95 each to e-file and print your returns.

UDS ELECtroTAX LLC: (www.udstax.com) Free downloads and supports all individual federal tax forms with e-filing for $6.95.

2nd Story Software, Inc.: (www.taxact.com) Download free software with the option of audit features for only $7.95 per return.

Block Financial Corp.: (www.taxcut.com) Do your taxes online for $9.95 including free electronic filing.

H&R Block Inc.: (www.hrblock.com) Do both your federal and state tax returns online. Federal costs $9.95 and state $4.95 with both including e-filing and printing of your returns.

Jackson Hewitt.: (www.jacksonhewitt.com) For those who acquire a little more help with their returns, Jackson Hewitt will walk you through the e-filing process and answer any questions one on one at any of their local offices.

E1040.com: (www.e1040.com) Online filing with phone support for only $19.95. Also, the option to file your tax extension online for $19.95.

If you may have any further tax concerns or questions, refer to www.irs.gov for more information.

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Speak at Graduation!

Have you ever dreamed of speaking at your own College graduation? If you are a Senior graduating this May, you are encouraged to submit your proposed speech to the Student Activities Office in the Student Center. The Deadline for entrees is ***April 3rd*** *at 1:00 PM.*

You could be the single biggest inspiration to your own graduating Class of May 2000!

Women's History Month: Honoring the Pioneers

In celebration of Women's History Month, the Oredigger is publishing some of the history of women's at Mines taken from *A Century of Women at Mines* by alumni Kathleen Altman, Susan Riebe, Tiffany Abbink, Mary Beth Beach, Judy Bolis, Sandy Kramer, Cathy Mencin, Tara Schenk and Pamela Tittes.

Florence Caldwell Jones

During the first 75 years of CSM's existence (1874 to 1949) only four women were granted degrees: Florence Caldwell Jones CE 1898, Grace McDermut Mulligan EM '03, Ninetta Davis, EM '20 and Jacquelyn Borthick Kircher PRE '49. Who were these early pioneers who paved the way for the hundreds of women that eventually followed?

Florence Caldwell was born in Gallipolis, Ohio, in 1868. She attended public school and then enrolled in Adelbert College in Cleveland. In 1888, coeducation was abolished at Adelbert so Caldwell transferred to Ohio Wesleyan University and received a bachelor of science degree in 1890. She then enrolled in graduate classes and taught freehand and scientific drawing at the Cleveland School of Art from 1892-95. In the 1895-96 academic year, Caldwell enrolled at Mines.

The president's report to the board of trustees indicated that in 1980-81, quite a few women were attending drawing classes and special lectures at Mines. But around 1882, the curriculum was changed and such courses were eliminated. When Caldwell first arrived, her fellow students, all male, tried to discourage her, but eventually she was accepted and became one of the gang.

Jacquelyn Borthick Kircher

School records show Caldwell was a good student who scored exceptionally well in calculus. She graduated with a degree in civil engineering in 1898. While attending CSM, Caldwell met fellow student Frank H. Jones E.M. 1898. After graduation, Caldwell returned to Ohio to teach at the Cleveland School of Art while Jones accepted a position in Georgetown, Colo. Three years later they were married and in 1909, they adopted a son.

After the marriage, the Joneses spent the next 12 years in various mining towns including Leadville, Colorado, McGill and Ely, Nevada, Trail, British Columbia, and Milner, Idaho. The March 1913 *Mines Magazine* reports: *"Frank H. Jones, with his wife and little boy, visited the school on February 4th, and the assistant secretary had a very enjoyable time talking over old times with them. They are leaving Jerome, Idaho, for Houston, Texas, where Jones will open an engineering office."* No mention is made of Caldwell also having graduated from Mines.

The Joneses continued moving as Frank Jones' career progressed. After a lifetime of supporting her husband's transient mining career, Caldwell died April 22, 1937 in Clarkdale, Ariz. Frank Jones described his wife: *"There is little to write about her engineering experience ... I prefer to remember how much help she was to me in assisting to solve the many knotty problems in my work. Her personal characteristics were admirable: loyalty to friends, kindness and sympathy to anyone in distress of mind or body, and unwavering courage. She kept me encouraged through many rough places."*

Grace McDermut Mulligan

Grace McDermut, the second woman to graduate, was from Jersey City, N.J. She enrolled in 1899 along with 350 men. Her aunt had invested in the Razzle Dazzle gold lode in Colorado and suggested McDermut learn mining engineering so she could oversee the mine. Unfortunately, her family lost the mine a few weeks before her graduation in 1903, leaving her with a "fancy degree on my hands and no place to make use of it."

In 1904, McDermut applied to the National Bureau of Standards (NBS). The bureau director responded that "any young woman who had the courage to fight her way, probably the only woman in her class, through a four-year engineering course, ought to be given a chance." McDermut became the first woman hired by the NBS in a permanent position "as an experiment." She remained there 44 years achieving numerous promotions, including the Medal for Meritorious Service in 1949. McDermut married Barry Mulligan and had one son. She was divorced in 1920.

Ninetta Davis received her degree in 1920. The Denver native was popular with her classmates and was elected secretary of her freshman class. Following graduation, she worked for Midwest Mining Co., Union Oil of California, Shell Oil Co., the United States Geological Survey and in private business. In 1934, she began working in the conservation branch of USGS. She completed office geology of dam sites and studied the subsurface geology of oil fields in the western states to help with the conservation of oil and gas on public lands.

Davis also was active in the Rocky Mountain Association of Petroleum Geologists (later the RMAG) and served as secretary-treasurer, vice president and was the first woman president.

Jacquelyn Borthick earned her degree in 1949. She also was popular with her classmates and was chosen by popular vote as homecoming queen for 1948. She also served on the junior-senior prom committee, the *Oredigger* and as secretary of the American Society of Mechanical Engineers.

An interest in chemistry and math led this native of Denver to study at Mines, which even then had a reputation as being the best around in those subjects. Her older brother was one year ahead of her at Mines. Borthick roomed in Golden, but had trouble finding a place to eat. She finally made arrangements to eat with the cook at the Beta House because she was not allowed in the dining room with the men. Another problem she faced—which continued into the 1960s—was a lack of women's restrooms on campus.

Ninetta Davis

The day after graduation, Borthick married Rex Kircher PRE '49. While he studied business at University of Denver, she worked for the Denver and Rio Grande Western Railroad doing laboratory work at the Bureau of Standards and Research. Eventually, the couple moved to Southern California where Borthick raised two children and became involved in the PTA, Boy Scouts, Girl Scouts, the Easter Seal Society and the hospital auxiliary.

Nobel Prize Winning Women Scientists

Marie Curie
1903/1911 Physics/Chemistry

Irene Joliot-Curie
1935 Chemistry

Gerty Radnitz Cori
1947 Medicine/Physiology

Marie Goeppert Mayer
1963 Physics

Dorothy Crowfoot Hodgkin
1964 Chemistry

Marie Curie

Gertrude Elion

Rosalyn Sussman Yalow
1977 Medicine/Physiology

Barbara McClintock
1983 Medicine/Physiology

Rita Levi-Montalcini
1986 Medicine/Physiology

Gertrude Elion
1988 Chemistry

Student Center Scheduled for New Additions

The Student Center will receive a large $2.5 million addition that will include some of the most used student offices on campus.

The additions will include moving the financial aid office, the admissions office, the registar, academic support services, student development center, career services, international student office and a cashier.

The additions will also include 2,500 square feet of meeting room space. The additions will be added to the building at the north end of the building along Maple.

It is scheduled to break ground by September or October and finished by June 2001.

Funding came from selling $7.8 million in bonds to pay for the additions and for other projects including improvements to fraternities, Mines Park and residence halls.

Other projects for the Student Center include renovating the bookstore and the cafeteria, projects will be finished this year.

Job Fair Offers Local Positions

Explore all the jobs the City of Golden has available!

Representatives from various departments will be available to answer your questions about career and summer employment opportunities.

Discover why the City of Golden should be your employer of choice!

The event will take place March 28, from 4 to 9 p.m. at the Golden Community Center

Call 303-384-8185 for more information

Barnes & Noble with Ed at the Helm

Faisal G. Hashem

The tires on your car may be one of its less expensive components but certainly; they are one of its most important.

The antenna on your radio may not be its most expensive component, but it is surely one of its most important parts.

Ed Showers, the new CSM bookstore manager, has had 15 years in Boulder to learn never to run out of 0.5 or 0.7mm pencil lead.

Our new CSM bookstore is now owned and operated by the Barnes and Noble Company with Ed at the helm.

B&N understands that when you need E2 paper or eraser filler for you pocket clip eraser, you need it now.

Changes and improvements are many. From soda pops and candy, to the most recent computer books and most current software, from "school spirit" items to textbooks.

Not only has Ed brought in a whole section of the "Schaum's" and "Problem Solver" series of tutorials, he has the New York Times Best Sellers and Magazines too. Even cook books.

Though Fill and fill as they may, Barnes and Ed have prioritized space. The store has a more logical, and therefore easier to navigate, layout. It's actually less cluttered.

Ed has moved the checkout counter and labeled all other counters such as the "Information" station.

In addition, with four full-time employees, and six to eight part-time, the store is now "user friendly." B&N has some 400 stores nationwide with outlets strung from Harvard and Yale to junior collages.

With Ed's experience and B&N's resources, it is an easy prediction that customer feedback and satisfaction will be a priority.

As for that door on the east side of the bookstore, which leads in from the sidewalk? It is no longer just a tease.

Reliving The Middle Ages

Lianne Hill

Heralds loudly proclaim the rising of the sun, calling all warriors to battle, to defend the honor of their kingdom and their king and queen. Men and women in armor gather before their rulers, listening to the announcements and plans for the upcoming battle. They form a long line on their way to the field.

Warcries fill the bright, dusty air, while arrows whistle and catapults scream their own cry for victory. Sounds of pounding feet swords ringing off metal armor, and battle cries fill the air. Bright colors flash and then again disappear; banners are held aloft, proclaiming the might of each kingdom; sunlight glares off well-shined plate and helms. In the evening, drums are heard everywhere. Those that were enemies during the day lay down their weapons and all dance together in the dark of the night, sharing good food and good music.

What, you may ask, is this? This is the Society for Creative Anachronism (SCA), a worldwide group created to recreate and re-enact the Middle Ages and Renaissance. SCA is dedicated to learning and teaching honor, chivalry, and having a good bit of fun.

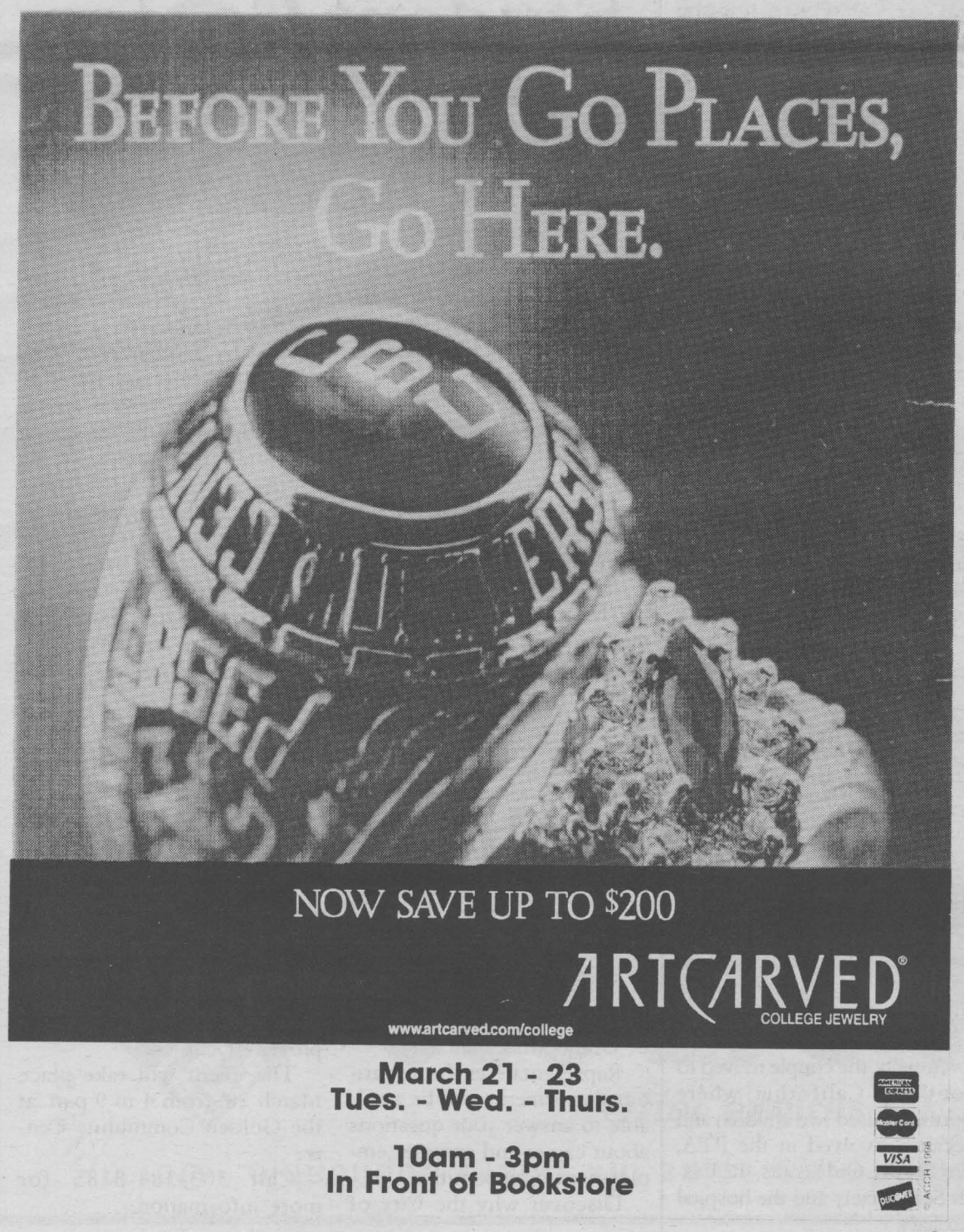
The Estrella War, described earlier, was a week-long event held near Phoenix, Arizona, with an attendance of about 9000 people. Five CSM students, along with ten others associated with the Mines SCA group, known as Scola Metallorum, drove or flew down to Arizona sometime during the week of February 16 to participate in the war. Those attending competed in fencing and archery competitions, danced to the beat of gypsy drums, searched through wares at the huge merchant's encampment, and sang and told stories by campfire light. They spent five days in medieval garb, relaxing from modern society and intrusions.

While trekking all over the country to watch people hit each other seems like a silly occupation to some, there is something entrancing about watching 2000 people charge at each other on a battlefield in full plate armor, crying for the defense of their homelands. SCA is a society of people who have dreams of something other than modern-day life. It is a society of people who get together to see or make friends from around the country with similar interests and greatly varying backgrounds. It is a society made of babes-in-arms and the elderly, of teenagers and of those in their prime. It is a society of people wanting to express themselves and to have some fun. It is all of these things, and whatever else you want to make of it.

Events are held on campus and around the Denver area, as well. Friedhoff Hall held approximately 50 people in costume on February 27. A Feast was held, including special events such as a building contest, dancing, and a court ceremony. On March 5, a collegium was held in Alderson Hall. Acollegium is an event where people gather to teach others the skills they know, including period dance forms, rapier construction, tavern customs, or paper-making. CSM students and others from all around Colorado visited campus for both these events. They managed to surprise Golden citizens by wearing garb into Kenrow's and the hardware store. The incoming freshman also had a bit of a surprise: this past Sunday was the day of Explore CSM, and some of the SCA members lunched and played instruments out on the Alderson lawn.

Fencing and archery practices are held every week on campus. Fencing is on Tuesdays in the gym from 7 to 9pm. Archery is on the baseball field Mondays from 4 until dark.

-For more information, contact David Clements at dclement@mines.edu.



SWE Reaches Out to Younger Students

Lianne Hill

The Student Center Ballrooms were crowded with almost a hundred short, hyper, and very enthusiastic Girl Scouts on February 5.

The girls were attending a program hosted by the Society of Women Engineers (SWE) designed to foster interest and enthusiasm in science. The Girl Scout Badge Day is just one of many programs put on by SWE throughout the year to reach out to the community.

Last fall, SWE hosted their annual Evening with Industry, an event created to help women at Mines gain a better understanding of careers in their interests, as well as to introduce industry members to Mines students. The Girls Club from High Plains Elementary School also visited campus last fall in an event meant to demonstrate to the girls what college and science careers entail.

The most recent event was Girl Scout Badge Day. It started with a discussion of roads and asphalt, with the girls excitedly responding to questions from the SWE presenters. Asphalt cookies were the visible, tangible, and edible portion of the lecture, effectively demonstrating how a mixture of tar (chocolate, marshmallows, and butter) could be mixed with the right proportions of gravel (coconut), sand and small stones (oatmeal) to make a strong asphalt mixture (or a really good cookie!).

Afterwards, various experiments and seminars were conducted; two of the most popular were when the girls were able to freeze carnations in liquid nitrogen and create their own color posters in the CSM computing labs. The girls and the volunteers also greatly enjoyed the campus tours that ended the day.

Parts of the event were televised by Channel 7 News from Denver.

Future events include a visitation day with young women from local high schools on March 25, outreach activities with the "I Have a Dream" Foundation, including a field trip to Mines on March 31, and a BBQ on Kafadar Commons April 19. For more information on these events, or to volunteer, contact Annette Ma at aama@mines.edu or Lisa Lassner at llassner@mines.edu.

Fun Things To Do During Spring Break

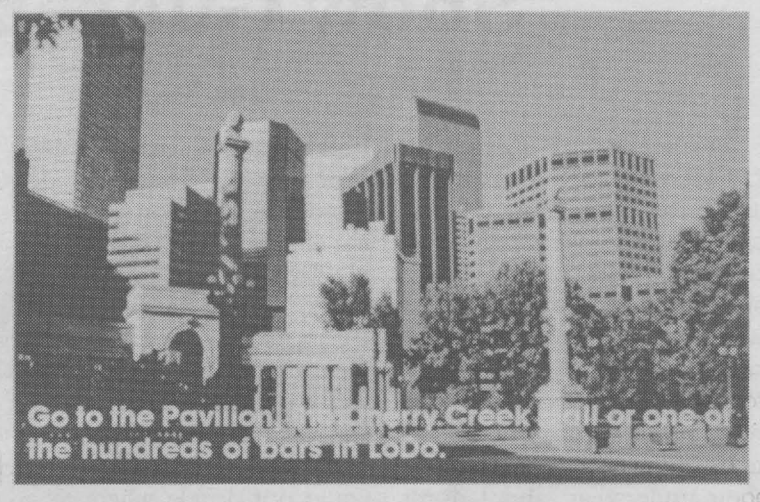
Photographs by John West

Just jump!

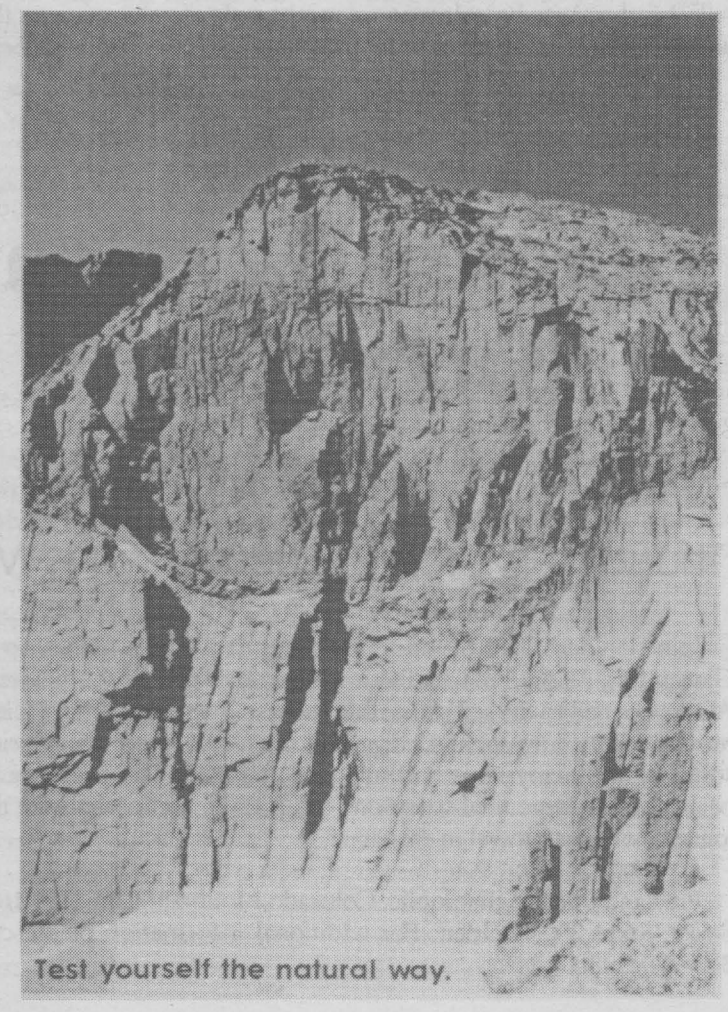
1. Go home and annoy your parents.
2. Get a pet iguana.
3. Get a pet kangaroo.
4. Become a day trader on the stock market.
5. Make an elaborate story to tell when your friends ask what you did for spring break.
6. Hibernate.
7. Change the locks and get a new roommate.
8. Go bungee jumping.
9. Write a script for when they finally make a mini-series of your life story.
10. Learn to cook.
11. Go to the zoo.
12. Rent a snowmobile.
13. Go skiing.
14. Build a snow cave and go winter camping.
15. Read a book.
16. Gamble in Central City.
17. Write a story.
18. Go to the Natural History Museum.
19. See an IMAX movie.
20. Go to an expensive hotel's bar and pickup someone on a layover.
21. Rent a nice car and cruise around Golden.

There's always St. Patrick's Day in Denver.

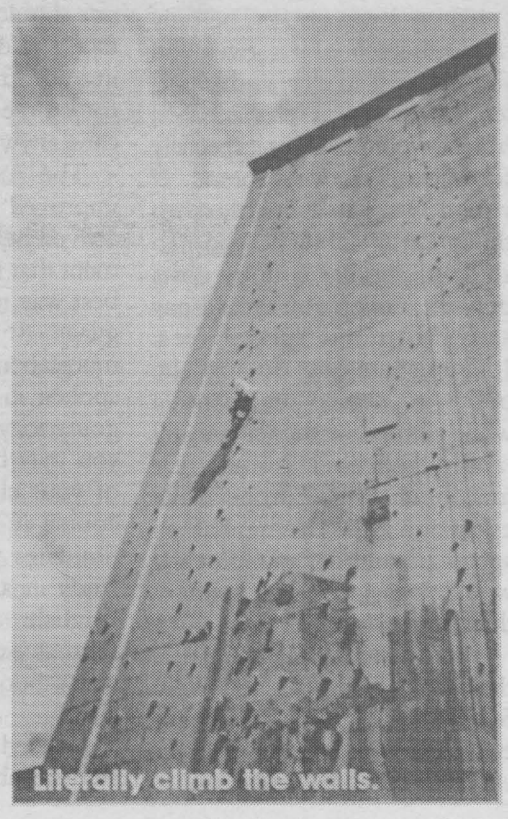
22. Liquidate all of you assets, go to Vegas and put it all on red.
23. Buy a junker and drive it off a cliff.
24. Max out all your credit cards shopping on the internet.
25. Go to Wisconsin for a cheese tour.
26. Go to the Seattle Opera and see "Boris Gudonov."
27. Write a list of all the ways the school is wasting your money.
28. Chain yourself to your bed and refuse to leave the campus.
29. Eat at Popeye's, Arby's and Hardee's everyday so you will be glad to return to the school caf.
30. Teach yourself to play the Moonlight Sonata on the gazoo.
31. Stay home and get drunk.
32. Go to a bar and get drunk.
33. Go to a hotel and get drunk.
34. Go to a friend's house and get drunk.
35. Go to a stranger's house and get drunk.
36. Rent a hotel room and pretend you're on vacation.


Go to the Pavilion [illegible] Clear Creek [illegible] or one of the hundreds of bars in LoDo.

Take a hike or climb Longs Peak


Test yourself the natural way.

37. Hitchhike across the country.
38. Get on the Internet and get a cheap airfare to anywhere.
39. Get a job at Wal-Mart and try to get fired.
40. Go to local high schools and convince kids not to come to school here.
41. Catch up in all your classes.
42. Work ahead in all of your classes.
43. Put up a tent on the front lawn of Coors for easy access to Coors Lab.
44. Write some interesting articles for the *Oredigger*.
45. Get a tattoo.
46. Get a temporary tattoo.
47. Put a personal ad in the paper that exaggerates all of your qualities and see how disappointed people are when they meet you.
48. Sell a kidney.
49. Buy a kidney.
50. Make up a story to get on Jerry Springer and see how stupid you can look.
51. Dress up as Sasquatch, videotape it, send it to "Real TV" and collect your money.
52. Buy a pair of old school roller-skates and skate down from the "M."
53. Buy fish and spread them throughout the buildings on campus and see how bad everything smells when you get back.
54. Watch TV all day to make up for not having time to watch it.
55. Sell all your roommates possessions.
56. Color.
57. Learn all the constellations in the night sky.
58. Go somewhere you've never been.
59. Go swimming and annoy all the lifeguards.
60. Shop till you drop.
61. Test drive cars and annoy car dealers with important questions like "are the tires included?"
62. Picnic in the mountains.
63. Watch *The Muppet Show*.
64. Find Waldo.
65. Tie-dye the "M."
66. Swim in Clear Creek
67. Clean out your refrigerator.
68. Transfer schools.
69. Scuba dive in Clear Creek.
70. Alphabetize your entire CD collection.
71. Replace all the dry erase markers on campus with Sharpies.
72. Rotate your tires.
73. Check out the Sunday night specials at The Love Shack.
74. Terrorize your local Denny's staff.


Literally climb the walls.

Canadian Resort Offers "Snow Guarantee"

Terra Rogers

Fernie Alpine Resort in Canada was next on our itinerary—a relatively short drive in comparison to those in the past, only two hours. That night we stayed in the Raging Elk hostel where the female rooms were occupied and Amy and I shared sleeping quarters with six male roommates who had no inhibitions about walking around in their underwear, and I don't mean boxer shorts. Though the hostel provided plenty of entertainment, a portion of the evening was spent in the Fernie Hospital emergency room. I had to get antibiotics, but of course, it was not that easy. The doctor felt it necessary to take my blood and test me for mononucleosis.

Amy Hinkle (left) and Terra Rogers at Fernie Alpine resort.

The next morning, after falling in love with a local bakery, we headed to the slopes located about five minutes from downtown. That morning, we slipped a few bakery sandwiches into our coat pockets as to avoid being forced to stop for lunch. However, I fell more than usual that day and ended up eating compressed pellets of bread, mayo and turkey. The slopes of Fernie Alpine Resort presented a visual that I have never seen before and perhaps never will again. The engineer in me is dying to understand; the inversion of low-lying clouds caused an iridescent blue color that illuminated the freshly dusted, bustling slopes. Again, like in Kimberly, once we were lifted above the clouds, the sun was shining bright and the sky was a crisp blue. The mountain opened up before us and we could not decide where to go first. There were powder-filled bowls and opportunity for fresh tracks all day. I personally recommend Cedar Bowl where Grizzly Peak hovers over you while you drop into what is, at first, undemanding, then gradually drops you into an option of black diamond shoots—shoots that make you proud to look back at what you have just survived. Fernie must sacrifice frequently to the snowmaking gods. It is a true powder pocket of the Rockies. Fernie's brochure even comes with a "Snow Guarantee: Fernie is proud of its snow reputation. If snow conditions do not meet with your expectations, return your lift ticket within one hour of purchase and we will give you a snowcheck valid for another day." We left Fernie that night and as we drove, I promised Amy that I would some day have every run on that mountain memorized as well as own a cute little cabin on the outskirts of the town.

We were only on the road two hours that night before we had an unexpected delay. The customs officers must have felt that Amy and I were a threat to the well being of our own country and searched Mitsy (the Mitsubishi) for nearly an hour. However, this obvious inconvenience ended up benefiting us. We got to giggle at the officers wasting their time sifting through dirty socks and undergarments, old, moldy pieces of pizza and other awkward female things. It also made me realize I had forgotten a bag in Fernie. We turned back for another night in my future hometown, not to mention another round of doughnuts from my favorite bakery.

Search for Aliens on the Web?

Sean Donlin

The California-based Search for Extraterrestrial Intelligence (SETI) Institute, along with help from the University of California at Berkeley, is offering people a chance to glance into the heavens and watch as astronomers search for extraterrestrial life from the convenience of their own personal computer.

Astronomers from the SETI Institute are currently stationed at the Arecibo 1000-foot-wide radio telescope in Puerto Rico searching the night skies for radio patterns that might stand out amid the background noise of space. This biyearly event for the SETI Institute started Feb. 22 and is known as Project Phoenix. The project, which runs until March 14, is being displayed live over the Internet at http://www.seti-inst.edu/seticam/Welcome.html via two Webcams that are updated every two minutes.

The Webcams allow viewers to see live images from the Arecibo research center, including live star maps and data from the giant telescope to see what stars and galaxies the researchers are gathering their information from. At the SETI website, users are allowed to select different viewing windows from two separate controls. The views vary from video of the astronomers conducting research to updated data and comments from the SETI Institute.

The SETI Institute conducts its extraterrestrial research by first picking up any unidentified signals by the Arecibo telescope and then confirming them with another large radio antenna at Jordell Bank in England. The software that runs the telescope then tells the telescope to move away from the star and see if the signal still appears. If the signal is truly from a faraway star system, it should disappear when Arecibo's receiver moves off-target. But if the signal is due to interference from a satellite or an earthy transmitter, the Arecibo telescope will still pickup the signals even when it is not pointed in the direction of the signal.

Project Phoenix ranks among the world's biggest extraterrestrial endeavors, with many other astronomers involved in the research. Data from Project Phoenix is being combined with the University of California at Berkeley's Project Serendip. Project Serendip is bringing together an extraterrestrial research community by distributing Serendip's readings over the Internet for analysis by 1.75 million computers equipped with SETI@home software.

The SETI Institute and Berkeley are involved in an even more ambitious project called 1-Hectare Telescope, or 1HT. The project calls for the building of 500 to 1000 satellite TV antennas in place of one very large radio telescope. Researchers feel that their plan will help save money and time and still allow them to experience the effects of one large telescope. The project is still in preliminary stages, but could be completed by 2004 and might help finally answer the question, "Are we really alone?"

Studying Abroad a Golden Opportunity

Scott Daniels

What if I told you that CSM would send you to school in another country for free? I know, you'd say I was crazy. The only things this school has given you for free were an ulcer and countless headaches. Get this: CSM has many scholarships, especially for students studying abroad. If you don't get a scholarship though, it is still dirt cheap. To study in another country costs only the tuition you would pay at CSM, minus school fees. Imagine hanging out on the beach in Mexico or Australia while all of your friends are still landlocked back home. Or imagine touring Europe while everyone back home has to spend another day in Golden It wouldn't even cost you anymore than staying here.

I met a student from Austria the other day and I asked him a few questions about his experiences here. You could see in his eyes that he was passionate about them. He couldn't stop talking about how great an experience it was and that everyone should do it in their life. In fact, I told him I was just writing an article about it, but he forced me to fill out an interest card anyway.

The Austrian's English had improved a great deal since he arrived here. There is no argument that total immersion is the best way to learn a foreign language. If you have basic communications skills in the language spoken in the country you are going to, you'll be fine. In fact, you may be able to take some of your classes in English. Of course if foreign language intimidates you, you can always study in a country that speaks English. Currently, CSM has formal exchange agreements with schools in Australia and England.

I talked to Dr. Bickart about studying abroad. He said he feels that studying abroad is an incredible asset that every CSM student should experience. Engineering is a global profession. To survive you must remain internationally focused. An international experience can leave you more satisfied personally and professionally. Dr. Bickart says studying abroad is an incredible way to prove yourself. And, of course, it is an adventure.

Really, there is no reason not to do it. First, you get all of your classes pre-approved for transfer so you don't have to worry about having to retake any classes. The Office of International Programs helps you through the steps it takes to get your trip setup. You could learn a new language, have a great adventure, be more qualified for jobs, and be a better person! For more information go to the OIP office on the bottom floor of Stratton Hall.

Colorado Mountain Club

Glacier Bay Sea Kayaking

PRESENTED BY EARL MOSBURG

Thursday, March 9, 2000 at 7:30 PM

Join Boulder's Earl Mosburg for slides of a sea kayaking trip in Glacier Bay, Alaska. Glacier Bay is a huge tidal basin in southeastern Alaska opened to the sea just within the last 200 years as the glaciers retreated. Mosburg spent 12 days and traveled 130 miles exploring some of the many arms and inlets of the bay. The presence of bears and the large tidal variations of up to 25 feet complicate the logistics of kayak travel in this area.

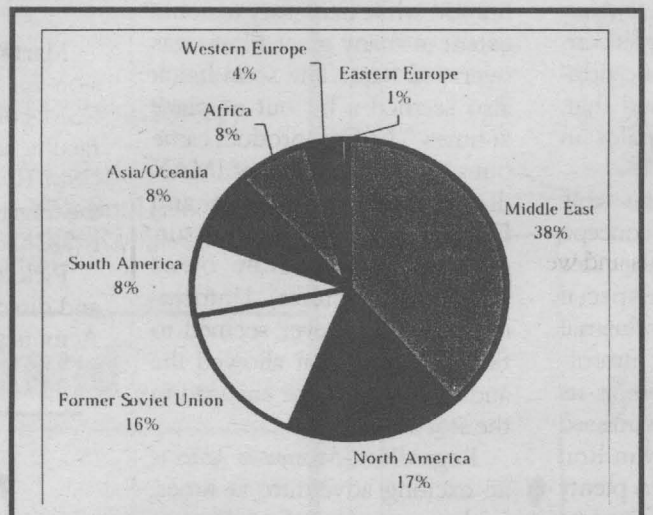
Free and open to the public. Colorado Mountain Club, 710 10th Street, Suite 200, Golden. For additional information please call 303-279-3080

The State of Global Oil

Faisal G. Hashem

Oil is the engine that drives the economies of most countries in the world. It is the most highly traded commodity on the international market. It replaced coal early in the 20th century and is now the world's primary source of energy. Thus, we need a clear understanding of the available quantities of worldwide oil. Some articles suggest that the global oil supply is in decline. The only way to come up with a qualified opinion is to study the actual figure for our recoverable reserves. Moreover, we should observe the state of our global oil resources and reserves through empirical analysis of indicators such as the Appreciation Ratio of Recoverable Reserves, the Replacement Rate of Produced Reserves, the Reserves to Production Ratio, and the Equitable Depletion Index. Evidence from these indicators suggests an abundant and growing world oil supply with no evidence to support the "immanent exhaustion" theory. These figures are accessible through the Society of Petroleum Engineers (SPE).

Despite regulatory barriers, the current oil supply market could support a modest growth in worldwide petroleum consumption. If current factors remain constant, the existing worldwide recoverable reserves would sustain our production rate for 2 to 3 decades. In 1993 the U.S. Geological Survey (USGS) estimated the range of the world's ultimate resource base as 2.1 to 2.8 trillion barrels. The Middle East accounts for most of the world's oil supply. The OPEC-member nation's share of proven oil reserves is over 60%. As of December 1998 the sum of producing and proven reserves was 1.9 trillion barrels, and 830 billion of these were already above ground. Under current technical conditions, 520 billion more barrels of discoverable oil can be added to our "conventional recoverable oil reserves." The rate of conversion from discoverable oil to identifiable, proven, and recoverable reserves is considered to be largely dependent upon technology (mainly drilling, production, exploration, and recovery techniques) and economic advances (such as production quota negotiations and world bank loans and grants). Since 1970, the worldwide recoverable reserves have increased at around 4% per annum. During this time, growth of recoverable reserves was typically higher for the non-OPEC producers. That is, in the last 30 years, non-OPEC countries extracted more of their identified reserves than did the OPEC nations.



Global % distribution of petroleum resource base

The Replacement Rate of Produced Reserves measures the production of the reserves replaced by OPEC, non-OPEC, and worldwide sources. Most oil industry analysts use this comparison to gauge the likeliness that an oil producing economy can delay an imminent exhaustion of petroleum resources. These ratios are a good indicator of an oil-producing region's ability to remain in the global market. For the past 3 decades, the average global Replacement Rate of Produced Reserves was 179%. The Replacement Rate was 255% for OPEC nations alone and 120% for the non-OPEC nations. The world continues to replace its reserves, continuously pushing back the "reserve crunch date." As for the Reserves to Production Ratio (R/P), current levels indicate that oil producers could easily sustain a continued worldwide production of 55 billion barrels per day for 20 years.

The Equitable Depletion Index (EDI) represents the ratio of regional oil production shares to our proven global reserve shares. It is a measure of market stability in terms of reasonable extractions relative to our known recoverable reserves. Inequitable depletion processes can cause stress in the global petroleum industries. Regions that extract in excess of their reserve shares risk transferring market power to regions with unusually low EDIs. In 1998, OPEC's production was 54% of its equitable level. Non-OPEC producers however exceeded 250% of their share. This indicates an imminent reduction in the non-OPEC market's ability to keep OPEC in check. The outlook then for global non-OPEC sources is not a bright as that of OPEC's. Nevertheless, this does not support the pessimistic views of the naysayers who warn of an imminent global oil crisis. Rather the trends in the empirical data indicate no evidence that the global oil industries are in any danger of worldwide petroleum exhaustion for many years to come.

This Week In...

...1970

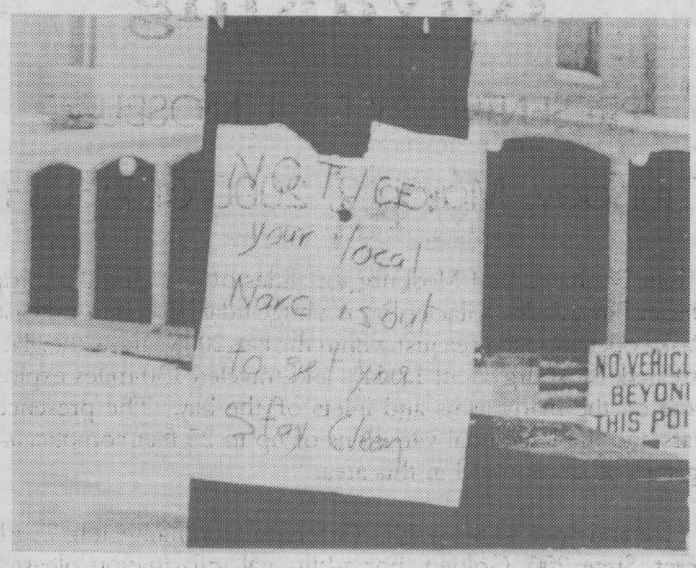
Sometimes, the short tour can leave you deaf, dumb, and blind.

...1978

Ancient stalagmite under the Union is a foot-high reminder that winter is not quite over. Carbon-14 dating and tree ring correlations proved the formation to be about two weeks old.

...1971

...1969



...1968

TUESDAY, MARCH 12, 1968 THE OREDIGGER

Chuck Berry to Appear at E-Day

By Jim Stacy

"... the most profound effect on popular music in the 1900's" mother and sisters, sang in the Antioch Baptist Church choir. He bought his first guitar, a used ment; he is rated number seven on the list of world music personalities by a large London news-

Mission to Mars Fumbles in Attempt to Mix Styles

Brett Maughan

When I was just a young tadpole in the big pond of 75mm entertainment, I remember my father dragging me down to the Cooper Theater, at the time one of the three remaining large movie screens in the Denver area, to witness on their big curved screen the re-release of Stanley Kubrick's *2001: A Space Odyssey*. Although this masterpiece is hailed as the greatest science fiction film of all-time, I was too young to really fathom its genius then. Now that I'm an old man, a little wiser for the wear, I have developed a full appreciation for the technical accuracy and profound evolutionary message Kubrick so artfully wove into the his seamless mosaic.

Many images in the previews for the new Touchstone picture *Mission to Mars* suggested a close relation to *2001*, and, unfortunately, I was suckered in, as I think many will be, hoping for another sci-fi flick of similar caliber. *Mission to Mars*, starring Gary Sinise, Tim Robbins, and Jerry O'Connell, certainly paid tribute to Kubrick with many of its technical design concepts. Most notably, the spaceship employed an artificial gravity area created by spinning a ring perpendicular to the long axis of the vessel, nearly identical to the design of the "Discovery" in *2001*, only smaller. And *Mission to Mars* does deserve praise for its consistently sound scientific principles. However, beyond that, this new adventure pales in comparison.

Mission comes to the table with a fascinating story concept, and backs it up with believable technology and slick special effects, courtesy of Industrial Light and Magic. The film offers two talented actors as its major leads: Sinise, who missed his turn in zero gravity in Ron Howard's *Apollo 13*, gets plenty of space hours as Jim McConnell, and Robbins leads the Mars rescue mission as Woody Blake. Despite their solid performances, the rest of the cast tends to diminish the overall "real-people" illusion with forced and often awkward delivery.

The true downfall of *Mission*, however, lies entirely in its style. The somber, dark, independent-film feel of *2001* worked perfectly and could have been effective in relaying *Mission's* cosmic theme. Instead, much of the movie was light and fluffy, trying to tug at the heartstrings with characters that the audience hadn't quite connected with yet. The addition of humor, while necessary to some extent in many great films, was overused here. The soundtrack also seemed a bit out of place at times. The final product came out as an odd melding of IMAX documentary, sci-fi epic, and Disney animated classic (not surprising since Disney owns Touchstone Pictures). Unfortunately, *Mission* never seemed to find a rhythm that allowed the audience to become engaged in the story.

Regardless, *Mission to Mars* is an exciting adventure at times, with moments of brilliance when only Sinise and Robbins are featured. The ultimate statement about the origin of life on Earth, a common theory among science fiction enthusiasts, might offend the close-minded, but should make the average Joe ponder life for a little while before returning to the daily grind of the real world. Most Mines students will marvel at the technical wizardry and rack their brains searching for inaccuracies that are few and far between. This film is worth seeing on the big screen, if only for the special effects.

Free Night at the Art Museum

Wednesday, March 29th from 5 - 8.

Marth 29th it's free admission for all members of the CSM community (students, faculty, and staff) with a valid CSM ID card. Admission to the traveling "Matisse" exhibit is $8.

Pick up more information and directions in the Student Activities office.

CSM and the Arts

SPONSORED BY THE OFFICE OF STUDENT ACTIVITIES

The Anatomy of a Concert

Luke Noffsinger

This year, we are going to kick off E-Days in style! Every year, we on the E-Days committee, get very excited at the prospect of getting a really big band to play for us. This year was no exception. I got an opportunity to talk to a lot of you when we conducted our poll in the Student Center. We gave you a long list of possible bands that we could get and got a very good response (I was counting ballots for days!). In the end, we had a good idea of what kind of music you wanted, but we still had to go through the process of getting a band. What I would like to do with this column is to tell you what we did, who we tried to get, and why we are excited about who we did get.

The first offer we made was to Smashmouth. We heard through our broker that they were coming through on the Yahoo tour and we had a good shot at getting them to stop by here on the way through town. We submitted a bid and we waited (most of this process is waiting!). As it turned out, Smashmouth really did want to play here, but they will be in Europe that week. (For those of you who don't know, this is not the first time we have lost an act to the Europeans so I am going to start lobbying Congress to bomb France so that our bands won't go there anymore.) Even though we were not successful in bringing Smashmouth, the process encouraged us because we hadn't been turned down flat.

Next, we focused on Big Head Todd and the Monsters. This is a relatively large local band that in most parts of the country is easy to deal with. Since we are in the Denver area though, the logistical problems and demands made by the group were too great to pursue. The next band we tried was Lit. We were very excited about this band because they are a pretty big band name and they were well within the price range. We made a good offer to them, but unfortunately they are playing in L.A. on the days around our show and cannot be in Colorado that weekend.

The original list that we put together was pretty well depleted (most of them raised their prices $30,000 and got really BIG HEADS!) so we started looking at bands that are popular now. Our agent strongly recommended that we try Stroke 9. The only problem we had was that they could only play on Thursday night. We decided that we really wanted the concert so now the schedule has been flipped around but all of the events are on campus and it is still the same E-days fun, just a little mixed up. The concert is on Thursday, the fireworks and parties are on Saturday. We are very excited because this band was unheard of when we put together our first list, but they are now pretty well known and are on the way up. In case you don't know them, they sing "Little Black Backpack." If you want to hear some of their music, come to a MAC event and we'll probably be playing it.

Tickets for this concert go on sale March 20th, right after spring break. They will be available in Student Activities for $10 for CSM students (you can buy two each for that price) and $15 for others.

If you are interested in volunteering for concert setup, clean up, or stage crew, please contact me at lnoffsin@mines.edu. We are very excited about this concert and are looking forward to E-Days 2000. See you April 6th!

E-Days Schedule

Thursday, April 6

4:30-7:30	Pig Roast (Volk Commons)
7:30	E-Days Concert featuring Stroke 9

Friday, April 7

8:30	Orecart Pull
11:00	Proclomation Ceremony
Noon-5:00	Events at IM field
7:00	Comedy show featuring Retta

Saturday, April 8

Noon-5:00	Events at IM field
4:00-7:30	Charity BBQ at IM field
9:00	FIREWORKS
10:00-1:00	Finale Dances (DJ and Swing)

If you'd like to volunteer, email jjordet@mines.edu

What's On This Weekend . . .

HAPPY SPRING BREAK!

Around Town
- Rivers: The Song of Life (Foothills Art Center)
- *Phantom of the Music Hall* (Heritage Square Music Hall: OPENS Mar. 9)
- Third Eye Blind (Paramount Theater: Mar. 14)
- Richard Lewis (Comedy Works: Mar. 10 & 11)

Opening on the Big Screen
- *Mission to Mars* (Gary Sinise, Tim Robbins)
- *Dolphins* (On the IMAX @ Denver Museum of Natural History)

At the Denver Performing Arts Complex
- Colorado Symphony: Paul Winter Consort -- Celtic Soul (Boettcher)
- *Jornadas: The Second Homecoming* -- Cleo Parker Robinson Dance (Temple Buell)

What's On Next Weekend . . .

HAPPY SPRING BREAK!

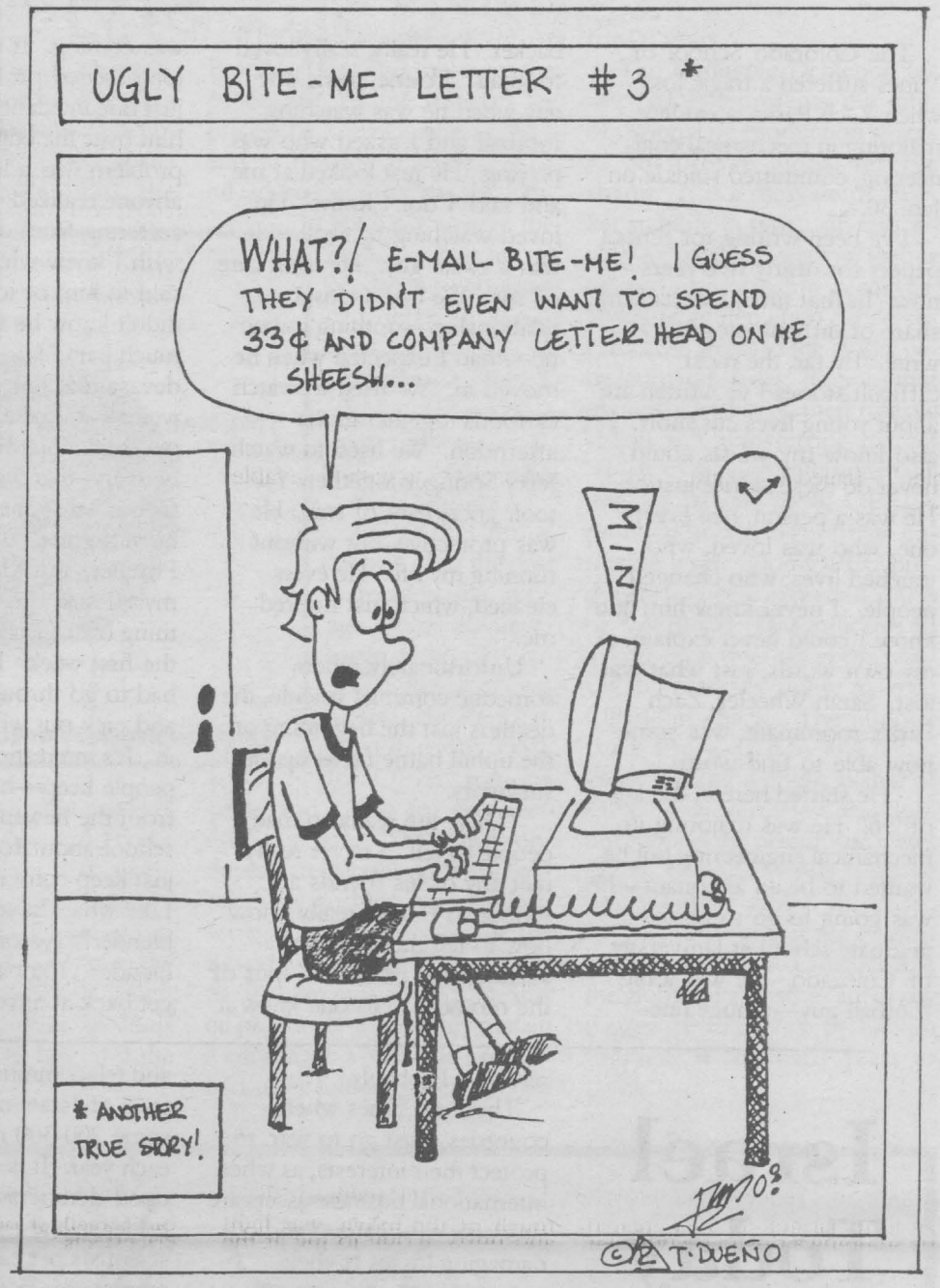
Around Town
- Opie Gone Bad (Gothic Theatre : Mar. 18)
- Fiona Apple (Fillmore Auditorium: Mar. 16)
- Jackie "The Joke Man" Martling (Paramount Theatre: Mar. 18)
- *Phantom of the Music Hall* (Heritage Square Music Hall)
- *The Marriage of Figaro* -- Lyric Theatre (Macky Auditorium: Mar. 17; 8 pm & Mar. 19; 2 pm)

Opening on the Big Screen
- *The Ninth Gate* (Johnny Depp, Frank Langella)
- *Erin Brokovich* (Julia Roberts)
- *Final Destination* (Some actors)

At the Denver Performing Arts Complex
- Colorado Symphony: Brahms Requiem (Boettcher Hall)
- *The Cripple of Inishmaan* (Space Theatre: OPENS Mar. 16)
- *Buddy: The Buddy Holly Story* (Temple Buell : OPENS Mar. 14)

Beyond Mines

Tatiana Dueño



Diversions to Pass the Time in Class...

A programmer and an engineer were sitting next to each other on an airplane. The programmer leans over to the engineer and asks if he wants to play a fun game. The engineer just wants to sleep so he politely declines, turns away and tries to sleep. The programmer persists and explains that it's a real easy game. He explains, "I ask a question and if you don't know the answer you pay me $5. Then you ask a question and if I don't know the answer I'll pay you $5." Again the engineer politely declines and tries to sleep.

The programmer, now somewhat agitated, says, "O.K., if you don't know the answer you pay me $5 and if I don't know the answer I pay you $50!" Now, that got the engineer's attention, so he agrees to the game. The programmer asks the first question, "What's the distance from the earth to the moon?" The engineer doesn't say a word and just hands the programmer $5.

Now, it's the engineer's turn. He asks the programmer, "What goes up a hill with three legs and comes down on four?" The programmer looks at him with a puzzled look, takes out his laptop computer, looks through all his references and after about an hour wakes the engineer and hands the engineer $50. The engineer politely takes the $50 turns away and tries to return to sleep.

The programmer, a little miffed, asks, "Well what's the answer to the question?" Without a word, the engineer reaches into his wallet, hands $5 to the programmer, turns away and returns to sleep.

Arguing with an engineer is a lot like wrestling in the mud with a pig: After a few hours, you realize the pig likes it.

Four engineers were sitting around one day trying to figure out who might have designed the human body. The first fellow says "I think it might be a mechanical engineer because of joints and muscle and sense of balance." The other three nod their heads and say, "Yeah, could be." The second fellow says, "I think it might be an electrical engineer because of the nervous system and neural network." The other three nod their heads and say, "Yeah, could be." The third fellow says, "I think it might be a chemical engineer because of hormonal balances and metabolism." The other three nod their heads and say, "Yeah, could be."

The fourth fellow snaps his fingers and shouts out, "I know, it HAD to have been a civil engineer!" The other three ask "Why?"

"Well," says the fourth fellow. "Who else would put a waste water drainage right through a recreational area?!"

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Another Tragedy: Missing Zach

The Colorado School of Mines suffered a tragic loss when Zach Parks, a student majoring in mechanical engineering, committed suicide on Jan. 30.

I've been writing for school papers for nearly five years now. In that time, I've had my share of difficult stories to write. By far, the most difficult stories I've written are about young lives cut short. I also know my words could never do these stories justice. He was a person, like everyone, who was loved, who touched lives, who changed people. I never knew him and know I could never explain, in my own words, just what was lost. Sarah Wheeler, Zach Park's roommate, was somehow able to find words.

"He started here in the fall of '96. He was majoring in mechanical engineering but he wanted to be an astronaut—he was going to go to go to graduate school at University of Colorado. He was a big football guy—a huge linebacker. He really, really loved football. I came home one day when he was watching football and I asked who was playing. He just looked at me and said 'I don't know.' He loved watching football. He was a sweet guy. He took care of me. We had a closer relationship—nothing romantic—than I expected when he moved in. We used to watch cartoons together in the afternoon. We used to watch Jerry Springer together. He took good care of me. He was protective, but without running my life. He even cleaned, which just floored me."

Unfortunately, when someone commits suicide, the death is just the beginning of the uphill battle faced by the survivors.

"There are really so many people to tell. I never really met any of his friends at school so I don't really know how to tell them. It [the suicide] was extremely spur of the moment. No one knew it was coming. It came from a long-seeded problem. It was just one incident that pushed him over the edge. I think the problem was a lot deeper than anyone realized. He was suffering from depression. I wish I knew what I could have said to him or told him. I didn't know he was in this much pain. His family is just devastated. It's just been so weird—it'll take a lifetime to get over. First his stuff was here and that was weird, but then it was gone and it was like he was gone. When I wake up, I'm okay, but then I remind myself and I re-live the whole thing over. I had panic attacks the first week. It's so hard—I had to go through his stuff and pick out what to bury him in. It's interesting to see what people keep—he had articles from the newspaper in high school about football. You just keep coming across stuff. Like what do you do with his blender? No one wants his blender. I know this wasn't to get back at anyone or to hurt anyone. If he had known how awful this would be for everyone, he wouldn't have done it. I don't miss having someone around. I miss having him around."

Too often it seems as though the story ends when a person's life does. Unfortunately, that seems to be where the story truly begins. The survivors are left with a million questions and as many little pieces to pick up. Of course, there's the funeral arrangements and the belongings, but telephone solicitors still call, bank accounts need to be cleared, the mail still arrives, friends call not knowing the tragedy, and job interviews need to be canceled. The little things of daily life are perhaps the greatest reminder of a horrible reality. It seems such a simple decision to make—ending the pain and struggles permanently, but what's left for those who stay?

Erin Kock

Israel Today

War? Forget it. Someone once said, "the best revenge is living well." But you cannot live in fear and live well. You can compete commercially, though, and that is what a free-enterprise-democracy is all about. Are peace and free-enterprise-democracy then related? Probably.

There are times when countries must go to war, to protect their interests, as when international business assets are suddenly nationalized and damaging losses to their government or citizens are immanent (Cuba). Or, dependence upon another country's product is suddenly threatened (Iraq). The Middle East wars for antiquated religious reasons. What better way then to end this war than by developing new international interests and dependencies?

A leader in high technology and telecommunications, the state of Israel now attracts some 200-300 new businesses each year. It is a highly developed democracy, a world leader in the number of scientists per capita, and employees 25%of its work force in technology. Major international companies such as IBM, Intel, Digital, Microsoft, 3Com, GE, and TI, are a few companies who have established centers in Israel, bring in billions of dollars in foreign monies.

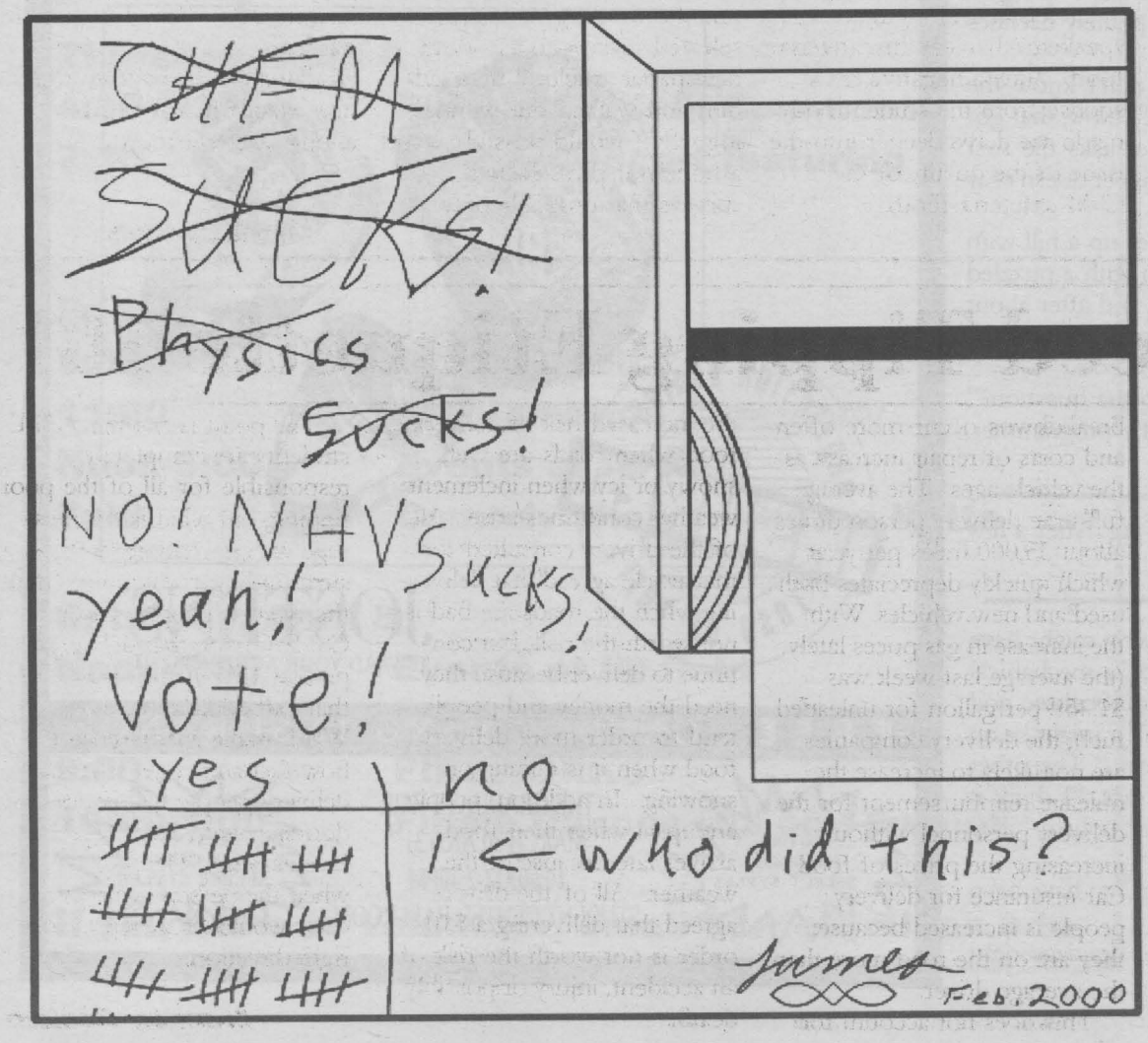
In 1996, 34% of Israel's work force had higher education or advanced degrees. Israel has the world's largest per capita concentration of engineers and doctors.

"In September 1993, Israel and the Palestinian Liberation Organization signed a 'Declaration of Principles,' a turning point in Israeli-Arab relations. Since that time, the peace process has progressed, with further agreements between Israel and the Palestinians and the signing of a peace treaty with Jordan. These treaties join the 1979 accords with Egypt as the first peace agreements between Israel and its neighbors. In addition, a number of members of the Arab League have announced their intention to lift partially their trade boycott of Israel. As a result of progress in the peace process and the partial lifting of the economic boycott, Israel and its Arab neighbors have taken several initiatives to encourage development of economic relations among the countries of the region."

Israel has secured a free trade area ("FTA") agreements with the United States and the European Union. 70% of Israel's GDP is from foreign exports. The conversion of Israel's economic focus from military to commercial, dropping from about 30% of GNP in 1973 to 14% in 1998, May make Israel the next "Silicon Valley."

Information in this article was obtained from www.amidex.com.

Faisal Hashem



Cassia's Advice

After reading Dante Alighieri's article a few issues ago and realizing that Dante was not the only one at this school with problems in the social arts. I decided to write this column for those in need of advice.

Before I go any further, I want to say why I feel qualified to write this column. First, I am experienced in aiding others through troubles of all sorts. I have dealt with people of a variety of ages, from 8-year-olds to those closer to my own age, as well as those thirty or forty years my senior. I have often been asked to give advice on situations and have been the increasingly wet shoulder for those in need of a hug or just company. I do not say that everything I will relate here will be perfect, or even the best possible advice. I do, however, say that I have experience and should be able to respond in a helpful manner. If I cannot answer a question, I will consult someone who can.

The first question I want to answer is the oft-repeated one: **Why can I not get a date at this school?** Usually, this question seems to be attributed to males, but I have found as many women asking the question as men. The truth is, you can get a date, no matter who you are. Getting a date is easily done- it simply requires asking someone out. Odds are, not everyone will say accept, but at some point, someone will say yes. The trouble comes when you have to decide whether or not this is a person you would like to spend time with. No matter how long it's been since you've last had a date, it is important to keep your standards high. I'm not suggesting you not date someone because they happen to be a little weird (who isn't a little weird here?). What I'm saying is not to put up with someone who doesn't treat you well. If you happen to still be dateless, remember this: the focus of the majority of the people at this school is studying. If you really want to date someone from this school, you will need to realize that studying is going to come first. For some people, that means their computers come first. This is not normal away from Mines I suspect, so it may be to your benefit to keep looking for someone- off campus, until you realize it is possible to survive single. In general, though, just keep your friends around and focus on what you actually came here to do - learn.

Cassia Calleos

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The Oredigger

THE VOICE OF COLORADO SCHOOL OF MINES, A SUPERIOR EDUCATION IN APPLIED SCIENCE AND ENGINEERING

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Wain Train Reveals...

Who's Hot and Who's Not at CSM

Do you think that you're one of the hotties on campus? In a recent random survey of 50 guys and 50 girls the following questions were asked to see who's hot and who's not (if anybody) at CSM:

(For Men) What percent of women on campus do you consider "dateable"?

Responses:

Number of CSM Honeys (as judged by CSM men)	Men who consider these Honeys "dateable"
0 Women	4 Men
1-25 Women	13 Men
26-50 Women	14 Men
51-100 Women	7 Men
100-200 Women	4 Men
201-400 Women	8 Men
Over 400 Women	0 Men

(For Women) What percent of men on campus do you consider "dateable"?

Responses:

Number of CSM Hunks (as judged by CSM women)	Women who consider these Hunks "dateable"
0 Men	0 Women
1-25 Men	5 Women
26-50 Men	25 Women
51-100 Men	10 Women
101-200 Men	5 Women
201-400 Men	5 Women
Over 400 Men	0 Women

These results don't exactly give the CSM campus an outlook of beauty. In fact, four of the men surveyed responded that they wouldn't date a single girl on campus. While I believe that this is more than a little excessive, many men made sure to clarify that they were more than a little frustrated with the Mines women. Mainly the frustration lied in the fact that not many women attend Mines, but some of the other problems stated that Mines women were generally introverted and don't know the meaning of the words "social life". A few of the men proposed blissful ideas about adding a teaching school to Mines and thus making it a women-filled haven, but so far no one has taken any action.

On the other hand, the women at the school of Mines also seemed selective when choosing the number of men they would consider dating. Most women (70%) decided that anywhere from 26-100 men at Mines were dateable. The women's outlook on men wasn't quite as dire as that of their male counterparts. Multiple ladies responded to the survey saying many men on campus were "hot" but only a few had personalities better than that of a brick wall.

Overall, I conclude that the single men and women on campus need to go out more on weekends to get away from Mines. From the replies I received, neither the men or women on campus have high opinions of one another which will only lead to less partying (if that's possible) and more studying if current trends continue. No one wants that, so let's all get along, shall we?

Kary Waln

CSM Cafeteria Food: Golden's *Sketchiest* Cuisine

Over the past week, I have surveyed 80 random CSM students, asking them the following question:

Overall, how do you rate the CSM cafeteria food, given the following choices?

1) The cafeteria is dining at its best
2) The caf is good except for an item or two
3) It's about average
4) Thank God for Top Ramen
5) I'd rather lick a toilet seat

The percent of students who picked each choice are as follows:

1) 0%
2) 5%
3) 35%
4) 15%
5) 45%

When I first looked at these results, I refused to believe them. It just doesn't seem possible that 45% of the CSM student body would rather lick a toilet seat (even figuratively speaking) than eat the cafeteria food. Such a negative response from the student body made me delve deeper into the issue of the quality of the CSM cafeteria food.

Fortunately, at the same time that I was taking my student survey, the Campus Food Service staff was taking a very similar survey, asking students about cafeteria food. The CSM survey was handed out in the cafeteria, and, as an added incentive to students, Oreo cookies were given upon the completion of each survey. Since I have a school meal plan, I participated in the gimmick. Most questions asked the student to rate the quality and type of different foods served. Since these questions nearly matched my own, I asked the Food Service Director, Alisdair MacLean, if I could make copies of the surveys to use in the Oredigger. He responded by refusing to let me copy anything. Instead, he recommended that I talk to him in another four weeks, in which time he would give me pre-selected surveys to use in my newspaper article. I thanked him and walked out wondering why I would possibly want a bunch of pre-selected surveys that probably only portray the responses of the 5% of students who like the cafeteria food.

It's easy to speculate from this point that unless you're one of the few students who enjoy café a la CSM, your survey response will probably be ignored or tossed in the trash. That means that when you read the results of the survey published by the CSM Food Service, you should treat it like the fabrication it really is and burn it. Maybe the student body can put together a Food Service Bonfire where we put these surveys to some actual use. In the mean time, my own random survey on CSM dining is probably an accurate (if not extremely sad) account of the cafeteria at Mines. If you're one of the many unhappy diners on this campus, I urge you to email the CSM Food Service Director, Alisdair MacLean at maclean-alisdairc@aramark.com to tell him exactly how you feel about cafeteria food.

Kary Waln

CSM Students Need Tipping Etiquette 101

Why do CSM students tip so poorly? Maybe because they do not have enough money. Maybe because their parents did not teach them well. Whatever the reason, CSM students have the reputation with all delivery services of not tipping. Have any of you ever realized that the service and courtesy toward- you from delivery people is often less than hospitable? There are few students who do tip and the delivery service people commend you.

The people who deliver pizzas and other types of food or waiters and waitresses in restaurants, depend mostly on tips to pay their bills. Granted, their jobs are not the best jobs in the world, but that is their place in the economy. In fact, some students here at Mines use these types of jobs to support themselves while they go to college and they know exactly what I am talking about. For the delivery drivers, the mileage reimbursement is not enough to pay for the gasoline, oil changes, tires, insurance, taxes, tune-ups and depreciation of their vehicles. Most of the delivery drivers consulted for this article have older vehicles and cannot afford newer ones. Since they are driving older vehicles, breakdowns occur more often and costs of repair increase as the vehicle ages. The average full-time delivery person drives about 35,000 miles per year, which quickly depreciates both used and new vehicles. With the increase in gas prices lately (the average last week was $1.459 per gallon for unleaded fuel), the delivery companies are not likely to increase the mileage reimbursement for the delivery personnel without increasing the prices of food. Car insurance for delivery people is increased because they are on the road more than the average driver.

This does not account for the increased risk of delivering food when roads are wet, snowy or icy when inclement weather conditions arise. All of the drivers consulted for this article agreed that delivering when the roads are bad is not worth the risk, but continue to deliver because they need the money and people tend to order more delivery food when it is raining or snowing. In addition, people are upset when their food arrives late because of the weather. All of the drivers agreed that delivering a $10 order is not worth the risk of an accident, injury or possibly death.

The point is not that CSM students are completely responsible for all of the poor tipping, but what is the message we are sending to the surrounding community about the type of people who attend CSM? Giving that delivery person 15% (if not more) or that extra dollar in change, WILL make a difference in how fast and courteous the delivery people will be at your doorstep with your food. Even saying "Thank you" when the person is at your door would be a step in the right direction.

Brandon Conlon

Introduction

George W. Bush and Bob Jones University

A conservative university in South Carolina recently fell under fire by the media as racist and bigoted. What caused the media to pay notice to such a small religious college, which, except for an incident about 30 years ago when the school fought and lost its tax exemption in the Supreme Court due to arguments over school policy, has remained out of the spotlight for it entire 74-year history?

Politics, of course.

George Bush, son of the former U.S. President of the same name and current govenor of Texas, recently visited Bob Jones University. Bush is campaigning for President under the Republican Party, and visited the University as a campaign stop. His choice of schools to visit was displayed by the media, however, as a sign that he sided with anti-Catholicism and racism. Bob Jones University has, for about 30 years, held the policy that there is to be no interracial dating, which is why they lost their federal tax exemption in 1970. The school decided on March 3, 2000, to remove the ban, though students are required to get a note from their parents if they wish to date someone outside of their race. Bob Jones III, grandson of university founder Bob Jones Sr., stated on the "Larry King Live" show that it only repealed the ban because they felt it was not a big issue to the school or its students; if the media was going to make such an issue out of it, they did not want to have the constant negative attention.

The school is also noted for its discrimination of the Catholic and Mormon churches, though not, Jones says, of the people themselves.

The media has given Bush a hard time about his visit to the University due to the fact that he did not openly disagree with and argue against the beliefs of the school, especially while he gave his campaign speech at the school. Is this something expected out of candidates? The media claims it is, while the University claims that no candidate previously visiting the school has ever had this problem or these sorts of complaints lobbed against them. The University feels that the media is attempting to attack Bush. Bush, in all of this, says that he should have separated himself from the University's anti-Catholic beliefs more distinctly. He made a public apology to the Catholic Church in an address to Cardinal John O'Connor, pastor to the 2.4 million Catholics in New York City. As a note, one of Bush's brothers is a Catholic convert.

Overall, the debate falls to whether or not politicians, especially Presidential candidates, should openly dispute the beliefs of possible voters or play politics and keep the peace by giving their campaign speeches and ignoring the views of those to whom they are campaigning. Here follows two views of the subject.

Lianne Hill

Point

"I should have been more clear in disassociating myself from anti-Catholic sentiments and racial prejudice."

George W. Bush, governor of Texas, expressed his regret in a letter to Cardinal John O'Connor of New York, leader of the archdiocese's 2.4 million Roman Catholics.

What is Bush apologizing for? What has raised such great criticism of a man with hopes of becoming the next President of the United States? What could this man have said to stir a debate on **Meet the Press**?

Bush said nothing. He never spoke a word of anti-Catholic sentiment. Bush never made one racial slur. He simply campaigned at Bob Jones University.

Bob Jones University, a South Carolina school, is a Christian school that bans interracial dating, and whose leaders label the Catholic Church a "satanic cult."

"President Ronald Reagan went there; the governor of the state of South Carolina, a Democrat, went there; Jack Kemp went there; Dan Quayle went there. And none of them were criticized for supposedly harboring anti-Catholic views simply because they went there," said Karl Rove, George W. Bush's campaign strategist.

So what was Bush supposed to do? It seems he should have told the entire school they're wrong. He was never suspected of harboring anti-Catholic views prior to his Feb. 2 visit, but because he did not tell the campus that they're wrong, he obviously has anti-Catholic views? Although he does have an influential voice to speak against "wrong doings," I don't think one person should dictate the ethics and morals of the population. Everyone in this country has the freedom to decide his or her own views. I choose my beliefs, you choose yours, people at Bob Jones University choose theirs and George W. Bush chooses his. Why should the people at Bob Jones align their moral compasses with Bush's? George W. Bush was doing what he knows best—he was being a politician. As a politician, you must solicit votes. Those votes must come from people of all different walks of life. The voter's beliefs may not be the same as those of the candidate, but when voting, you vote for the person who will best serve the country's needs, as well as your own. People do not need a president to outlaw interracial dating and persecute Catholics, but to continue to give them the freedom to choose what they believe.

George W. Bush wants the votes of people at Bob Jones. Alienating potential supporters will not win him a Presidential election. It is important to stand up for your beliefs, but it is just as important to respect those beliefs of people around you, since everyone is entitled to their own opinion.

Erin Kock

Counterpoint

George W. Bush was recently berated for campaigning at Bob Jones University. Bob Jones University has been called a racist institution and anti-Catholic. For this reason Bush has come under fire.

Now I cannot say that Bush lied or was immoral in giving his speech to the university. In fact, he did everything that a politician does. He went to a certain segment of the population and told them exactly what they wanted to hear. In elections, the majority rules and, in the United States, the uninformed voter rules. So these politicians go out there and give their carefully formulated speeches in an attempt to woo some naive voters.

George W. Bush was wrong, though. He wanted to appeal to everyone in every way. It is impossible to do this if you are straightforward. George Bush accepted the support of Bob Jones University. He wanted the unmitigated promotion of the university and everyone else for that matter. Bush remained silent about any disagreements that he may have had with the university so as not to make any waves. He stood on stage and sang and prayed while holding hands with Bob Jones III, president of the institution.

Okay, so Bush holds hands with Bob Jones, then goes and panders to the general public. Look, If a politician went to campaign at a KKK rally and participated in prayer with the Grand Dragon and did not speak out against them, his campaign would be over. Even the uniformed voter is bright enough to recognize that this would be a problem.

I'm not saying that Bob Jones University, or BJU as I like to call it, is the same as the KKK. I'm just suggesting that it is wrong to accept the support of an organization with which you and many others disagree without affirming your disagreements.

This is not the first time Bush has been unwilling to take a stand for what is right. Like most politicians he seems to be more motivated by politics than virtue. Until Alan Keyes pressed him during a television debate, Bush refused to condemn one of his supporters, South Carolina State Senator Arthur Ravenel, who called the NAACP the "national association of retarded people." At a recent convention of the Republican Jewish Coalition, Bush was unwilling to condemn Pat Buchanan's anti-Semitic outbursts.

Bob Jones University is a very disturbing institution. The college has rules about things like rock music, skirt lengths and dating. Interracial dating is not allowed and all dating must be chaperoned. Up until 1971, no African-Americans were admitted to the school. The school labels Catholicism "a satanic counterfeit." Bob Jones III, current president of the university whom George W. held hands with, called Bush's father, then-Vice President George Bush, "the devil" and former Secretary of State Alexander Haig "a monster in human flesh and a demon-possessed instrument to destroy America."

This is the same institution that labeled the Pope "The Antichrist." The university is filled with faulty reasoning. This junk gets passed on to the students, who help to spread the ignorance. The following are just a few of the responses the University had to public distaste for the ban on interracial dating. I use it to illustrate the university's spreading of fanaticism along with ignorance, a lethal combination. Here are some comments taken from their web site:

Since most people of all races choose to marry within their race, this furor against Bob Jones University seems totally disproportionate. The noise comes from but a strident few with personal agendas.

My response: Since the amount of people directly affected by school shootings is very small, the public outcry against it seems totally disproportionate. What kind of reasoning is this? This kind of rationale is extremely dangerous.

If the people of all races who choose to attend Bob Jones University have something they can live with, why should the world at large care? It does them no harm. None of the University's rules have any bearing or influence upon society at large.

Response: The reason Bob Jones University invites candidates to campaign there is so that the students and Christian Right can choose a candidate who will support their agenda. None of the university's rules have any bearing on the society at large? All right, BJU is sculpting children who will perpetuate the filth of the University by force feeding this to their kids, who will cram this stuff down their children's throats, and so on and so on. Not only this, but the school makes publications for school children!

Does the university believe that those who choose interracial marriage do so out of rebellion against God? No. It does believe, however, that often the promoters of interracial dating do so out of antagonism toward God because they are often the same entities that promote homosexuality, abortion, and other forms of social radicalism.

Response: The University is obviously perpetuating ignorance. Look at this statement closely. The reasoning is screwed up. The university believes the promoters are antagonistic because they are the same entities that differ in other of their philosophies. Because! Because! That is an ad hominem argument. Attack the promoter and disregarding the message. University officials just dodge the issue and attack people who use reason over faith as satanic.

Scott Daniels

Mines Athletics Update

Jeff Duggan

TENNIS - The CSM men's tennis team improved to 2-0 this spring with a 9-0 win over Southern Colorado in Golden on Saturday, March 3rd.

Geno Fallico, Kevin Yu, David Rademacher, Brad Howe, Brian Buck and Matt Walsh all won their singles matches against the Thunderwolves.

In doubles action, Fallico & Rademacher won 8-5, Howe & Yu won 8-1 and Buck & Walsh won 8-1.

Next home action for Head Coach Steve Wimberly's team will be in Golden this Saturday, March 11th at 12:00 noon. The team will then travel south for spring break and play in the Arizona Tennis Challenge from the 12th to the 18th.

While in Arizona, the team will have a dual match against Colgate University in Glendale on the 14th.

INDOOR TRACK & FIELD - Dayven Johnston will compete in the 400 meter dash at the NCAA II Indoor Track & Field Championships this weekend, March 10th-11th, in Boston, Massachusetts.

OUTDOOR TRACK & FIELD - The outdoor track season began for the Orediggers last Saturday, March 4th at the University of Northern Colorado Preview.

Eric Stellmon placed first in both the 110 meter high hurdles (time of 15.02 seconds) and the 400 meter intermediate hurdles (52.87 seconds). Stellmon's finish in the 400 hurdle was an NCAA II provisional qualifying time.

Aaron Hall placed fifth in the 200 meter dash with a time of 23.90 seconds and third in the 400 meter dash, finishing in 53.77 seconds.

WRESTLING - Junior 149-pounder Jody Trantham will compete in the NCAA II National Wrestling Championships at South Dakota State this weekend, March 10th-11th.

SWIMMING & DIVING - Freshman Brooks Masterson will compete in the 200 butterfly, the 500 freestyle, the 200 freestyle and either the 100 freestyle or the 1,650 freestyle at the NCAA II Nationals in Buffalo, New York on March 8th-11th.

MEN'S and WOMEN'S BASKETBALL - The 1999-2000 All-RMAC teams were announced on Monday, March 6th with five ladies and two men from Colorado Mines earning All-East Division recognition.

For the Orediggers (12-14 overall, 8-11 RMAC), junior forward Ben Esplin was named Second Team All-RMAC and junior guard Sam Handsborough received Honorable Mention All-RMAC laurels.

Esplin finished ninth in the RMAC in scoring with 17.6 ppg and 15th in rebounding at 5.7 boards per game. Handsborough finished third in the conference in free throw percentage at .829 (63-of-76) and ninth in assists per game with 3.26.

For the women, senior guard Amy Bollinger earned Second Team All-Conference honors while sophomore forward Marissa Eichhorn, senior forward Kristin Dillard and senior center Nikki Bautista all earned Honorable Mention All-RMAC accolades.

Even more, freshman center Kim Good received the RMAC's Freshman of the Year award after finishing the season second in the conference in blocked shots per game (60 blocks, 2.31 per game) and 11th in rebounding with 6.8 a game. Her single season total of 60 blocks and single-game total of 11 (Feb. 18 vs. Chadron State) both set Lady Oredigger records this year.

Bollinger, who averaged 11.1 ppg in 1999-2000, led the RMAC this season in steals per game with 2.92 and finished third with 4.50 assists per game. She will leave the school with career records in assists (339), single-season assists (117), free throws made (260) and three-point FGs made (85).

Dillard finished the 1999-2000 campaign fifth in the RMAC in total rebounds, Eichhorn finished seventh in steals and Bautista (Lady Oredigger career leader in blocks with 76) finished sixth in blocked shots.

Contact:

Colorado Mines' Sports Information Director Jeff Duggan at 303-273-3095, call the CSM Sports Information Hotline at 303-273-3177 or visit the Mines Athletics' website at www.athletics.mines.edu

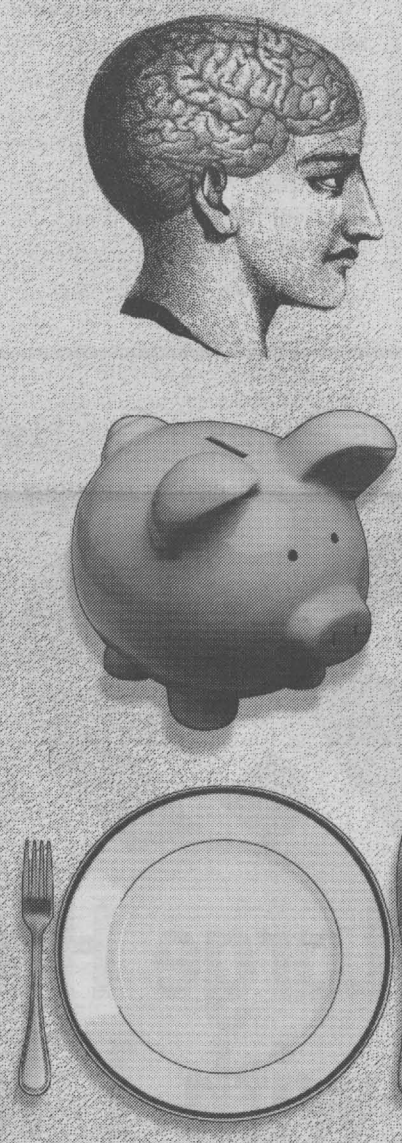
Oredigger of the Week

Carrie Wittkopf
Softball, #22
Peyton, CO
Falcon H.S.
5'8", Sophomore
Right-handed Pitcher

This past weekend, the Lady Orediggers won three out of four games from Colorado College (two Saturday at CC, two on Sunday in Golden) to improve to 3-9 overall. During the four-game home-and-home series with the Tigers, Wittkopf made her presence felt both at the plate and on the pitching mound.

At the plate, Wittkopf went 11-for-13, good for an .826 batting average. Of her 11 hits, six were doubles. She also scored six runs, drove in seven runs and walked twice

Wittkopf pitched in three of the four games, as well, earning two wins and a save. In eight-and-two-thirds innings pitched, she allowed just four hits and no earned runs while striking out 15 batters. Colorado College hitters managed just a .133 batting average off of Wittkopf.



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Major Trade Brings Bourque to Colorado

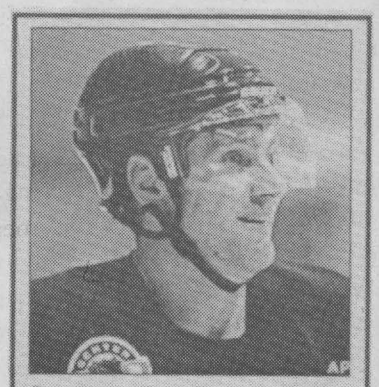
Brett Maughan

Monday night the National Hockey League witnessed a trade that fans and players alike were awaiting with a mixed bag of emotions. However, few expected it to work out quite the way it did. In a five-player deal, the Boston Bruins reaped a crop of fresh blood that should prove helpful in seasons to come. They acquired from the Colorado Avalanche forward Brian Rolston, minor-league defenseman Martin Grenier, center Sami Pahlsson, and their choice of the Avs' first round pick in either the 2000 or 2001 draft. In return, Colorado picked up a much-needed defenseman in Bruins captain Raymond Bourque, and a tough, in-your-goalie's-face forward in Dave Andreychuk.

Ray Bourque is acknowledged as one of the greatest defensemen in NHL history. At 39 years old, he has played his entire 21-year career in Boston. In that time he collected five Norris Trophies for top defenseman, the Calder Trophy for top rookie of the year, attended 18 All-Star weekends, and was voted MVP for the 1996 All-Star game. Up to now he has scored 395 regular season goals, placing him first among all defensemen in NHL history. With 1,111 assists, he is second in that category for defensemen, next to Paul Coffey. Overall, he is ninth in scoring with 1,506 points, and fifth in games played with 1,518.

In all that time, he and his Bruins have missed the playoffs only once. They reached the finals twice, and lost both times to the Edmonton Oilers (the team the Avs are chasing for first place in their division). Bourque always said he would spend his entire career with Boston. But with retirement on the horizon, Ray also wanted that elusive Stanley Cup Championship. So, when it became obvious that the Bruins were not going to make the playoffs this year, Bourque decided to finally ask for a trade to a playoff contender.

Bourque's first choice was rumored to be the Philadelphia



Raymond Bourque is making a run for the Cup.

Flyers. However, when that deal fell through Monday night, the Avalanche offer became the best one on the table. Also believed to have been fishing for Bourque were Avalanche archrival Detroit Red Wings, St. Louis Blues, and reigning Stanley Cup Champion Dallas Stars.

With veteran Alexei Gusarov out for the season, the Avalanche's need for a new addition to their questionable defense became a pressing issue. With this trade they picked up one of the best defensemen in the game. Furthermore, Dave Andreychuk is considered one of the greatest all-time "snipers" in the NHL, and, like Avs forward Adam Deadmarsh, is strong directly in front of the net, which will prove helpful in rejuvenating the Avs' slumping power play. Also, they gain a great pair of leaders and seasoned veterans. Bourque and Andreychuk are now the two oldest players on a team that began the season as one of the youngest in the league.

Boston, on the other hand, is looking to build for the future. They gained Sami Pahlsson, who has been playing in the Swedish Elite League, and was thought to be Colorado's next young star. The Bruins are confident they got good prospects in both Pahlsson and Grenier since the Colorado scouting staff has been called the NHL's best by many hockey analysts.

Bruins fans were saddened to see Bourque leave after 21 years, but most were supportive, wanting only for him get that Stanley Cup win he so richly deserves. Postings on the Internet show a great many Bruins fans now rooting for the Avalanche, some more reluctantly than others. At the time of the trade the Avalanche was far from secure in their seventh place playoff spot, with the Calgary Flames only a game behind them in the standings. But the Avs were also one game behind Edmonton, in the third place spot in the West. The division title is still anybody's ball game. With 15 games left in the regular-season going into Tuesday night's game with the Flames, Ray Bourque's run for the Cup this year officially began anew there.

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Mines Lacrosse Builds from Season Opening Loss

Sean M. Donlin

The Mines Lacrosse Team opened their spring 2000 season on February 26th when they traveled to Ft. Collins to battle National Champions Colorado State University.

Mines entered the game with only 15 players, compared to CSU's squad with over 45 members.

The young Mines team, with 5 of its 6 new freshmen whom had never played in a game before the season opener, kept the game tight in the first quarter. Mines held CSU to only three goals, but failed to find the net themselves.

"We played one hell of a first quarter against CSU. Our defense was able to pressure them and deny them many scoring opportunities," commented Mines Lacrosse head coach David Bonfoey.

As the second quarter started, the Mines team was showing signs of being out-manned, and CSU was able to take quick control of the game.

CSU raged for 10 goals, as Mines was only able to answer with a goal by Junior Jeff Chan by the time the whistle blew for halftime.

"CSU just outplayed and out manned us in the second quarter. We were making too many mistakes and not playing good fundamentals and CSU was able to capitalize," stated Bonfoey.

The second half of the game, Mines was able to slow the assault of CSU. The CSU team was only able to post ten more goals for the entire second half and Mines was able to place two more goals on the board from again Chan, and Sophomore Brent "Goose" Lutz.

"After halftime, we were more focused, and more able to hold and run with CSU. Both the defense and the offense played extremely well for the circumstances," replied Bonfoey.

Mines ended the game with impressive showings from Freshman goalie Chad Ones and the entire defensive unit. The score may not have shown it, 23-3, but Mines played a hard fought first game and faired better than they had in previous games against CSU.

"Chad played one of the toughest games of his career saving what would have been numerous additional goals. This game was not a waste for the team. We learned a lot from it and know what we need to work on.

The one true thing our team showed was character. They never gave-up and that is commendable," proclaimed Bonfoey!

Astacio Could Be Shipped Home

Loïc Wagner

The U.S. Immigration and Naturalization Service is considering deporting Colorado Rockies pitcher Pedro Astacio back to his home country, the Dominican Republic,.

Astacio recently pleaded guilty to an assault charge, which resulted in a two-year deferred judgment on Jan. 28.

Federal law considers this to be equal to a conviction, which is enough to deport an immigrant.

Astacio apparently punched his wife in an argument about the status of their marriage. Ana Astacio claimed the marriage was a common-law marriage, and Pedro, apparently unable to convince her otherwise through words, resorted to physical persuasion.

The couple was going through a divorce, and the marriage status would have consequences in the split of property.

The INS began working on Astacio's case as soon as he was convicted of assault.

Pedro Astacio

Softball Has Winning Weekend

Greg Bollinger

This weekend, March 4th and 5th, the Colorado School of Mines softball team improved there record to 3-9 after winning three of the four games played with Colorado College.

The key player during the weekend for the lady Orediggers was Pitcher/Designated hitter, Carrie Wittkoph.

On the weekend Wittkoph pitched 8 2/3 innings going 2-0 and picking up a save in the process.

This weekend's games Improved her record to 2-4. Not only did she do her job pitching but she also proved her abilities at the plate.

Wittkoph went 11for 13 at the plate with six doubles.

Other key games came from Rachal Wilde who batted 9 for 12 a 750 average and Reece Bollinger who batted 7 for 12 a 583 average.

The Lady Orediggers next home game will be March 16 when they host Regis University. Game times will be at 1:00 and 3:00 PM.

Outdoor Recreation Center Events

EVENT	DATE	DEADLINE	COST
Full Moon hike	March 20th	March 15th	$10/$15
Tune up Clinic	March 22nd	none	$5/$10
Ski Shuttle	March 25th	March 15th	$10
Ski Shuttle	April 1st	March 22nd	$10
Basics of Bike Tuning	April 5th	none	$5/$10
Rollarblading Clinic	April 7th	April 6th	$15/$20
CPR	April 10		$10
Intro to Rock Climbing I	April 15th		$20/$30
Rock Climbing II	April 16th		$20/$30

For more information, call 303-278-6202 or visit the Outdoor Recreation website at www.mines.edu/Stu_life/morc/

Miner Notes

APO

APO meets in Meyer Hall 357 on Wednesday at 7 p.m. For more information, contact Ian Nickerson at *inickers@mines.edu*.

Bridge Club

The bridge club meets THURSDAYS from 6-11 p.m. in the Coolbaugh atrium. Feel free to come for any portion of this time. Beginners are welcome. If you have any questions, please contact Jeff Brown (303-279-1410, jsbrown0@mines.edu) or Dan Stacy (720-371-1292, dstacy@mines.edu).

Board of Publications

If you have complaints regarding any of the three student publications at the Colorado School of Mines, please feel free to contact a member of the board of publications. You can email the chair at clanders@mines.edu or the ASCSM representative at wtrainor@mines.edu or call (303) 273-3784 and leave a message for Whitney Trainor.

Campus Crusade for Christ

All are welcome to join us, for our weekly 737 meeting. It is a place to hang out with friends and talk about life. Meetings held every Thursday at 7:07 p.m. and is located at First Baptist Church of Golden on the corner of 19th and Washington. Afterwards, we will be going to the Golden Grind for food and fellowship.

Catholic Newman Group

Anyone is welcome! A discussion group for contemporary issues. Every Tuesday night at 8:30 p.m.; 2nd floor of the Green Center in the Ted Adams Room. Please contact Matt at 303-271-0654 or *mlengeri@ mines.edu* for more information.

Circle K

Come find out about the world's largest student run service organization. Meetings are held Tuesdays, 6 p.m. at the Student Center in room 236. For more information contact *clapok@mines.edu.*

CSM Concert Choir

The CSM Choir is open to everyone!! Come sing jazz, classical, and contemporary pieces with us every Thursday from 4-6 p.m. in CO 209. Questions? Call Matt at 303-271-0654 or email mlengeri@mines.edu.

Diversity

The CSM diversity steering committee is looking for student, faculty and staff nominations. This committee reports to the President and the Board of Trustees through the Vice President for Academic Affairs. For more information on the committee or to pick up a copy of the nomination form, feel free to contact Student Activities.

E-Days

E-Days 2000 is coming. As your organization begins to plan its new year, start planning to help with E-Days 2000!!! Meetings will be held on the following dates to help organizations figure out how and what they can do! March 28, and April 4. Questions? Contact Jessica Jordet 303-273-3908 or jjordet@mines.edu

Earthworks

Meetings are held every Wednesday at noon in Alderson Hall 362. All are welcome! Come help us with plans for a campus Earth Day celebration.

FCA

The Fellowship of Christian Athletes meets Wednesdays at 7:30 p.m. in the Projection Room on the second floor of Volk Gymnasium. All are welcome: Christians, athletes, both or neither. For more information email *fbuckner@mines.edu*.

FCC

Fellowship of Christian Cowboys (and girls), the 1996-97 New Club of the Year, meets weekly on Thursday at 6 p.m. For information, email *derjacks@mines.edu* or visit *http://www.mines.edu/Stu_life/organ/fcc*.

GLBE/Sigma Lambda

We've changed our name! Sigma Lambda (formerly Gay, Lesbian, Bisexual Engineers) meetings held twice monthly with social events throughout the month. For more information contact glbe@mines.edu or visit our website at www.mines.edu/Stu_life/organ/glbe

Graduation

March 30 & 31, each day from 10:30 a.m.- 2:30 p.m. Graduation Salute, Student Center Ballrooms A & B. April 26, 4 p.m. graduation practice, Bunker Auditorium. April 28, check out forms due to the Dean of Students Office. May 4, 6 p.m. Senior Banquet in Friedhoff Hall. May 5, 9 a.m. graduation, Kafadar Commons.

Ice Cream Building Contest

The junior class will be having an ice cream building contest, Saturday of E-days, April 8 from 12-2p.m. There are four categories, Bridge Building, Tallest Structure, Famous person, and Famous Landmark. Teams of four are needed. Email analepa@mines.edu.

Karate Club

CSM Karate Club has a new schedule! Monday and Wednesday from 6:30-8 p.m. in the Student Center Ballrooms. Karate is a tremendous way to stay in great physical shape, tune mental concentration skills and gain confidence about personal security. Spectators and new students are welcome anytime. For more information call Amir at 303-216-2183 or email achaghaj@mines.edu.

Kayak Club

Kayak Club holds pool sessions every Monday from 7:30-9:30 p.m. Everyone is welcome from beginners to advanced. Contact Jason at (303) 273-0507 or email *jlegore@mines.edu*.

Kendo Club

The CSM Kendo Club will meet Wednesday evenings, 7-9 p.m., in the Student Center ballrooms. Kendo is the ancient art of Japanese fencing that evolved from the life and practice of the Samurai warrior. New students and spectators are welcome anytime. For more information call Sensei King at 303-795-9040 or email fourrex@aol.com.

LDSSA

All students are invited to enjoy a guest speaker and lunch for $1 at the Latter Day Saint Student Association's Friday Forum. Every Friday at noon at 1212 Arapahoe Street. Email meallen or grussell for more information.

Rugby

"GIVE BLOOD - PLAY RUGBY." No experience required - will train. Violent temperament and aggressive nature a plus. If you are interested in joining a winning team and meeting all kinds of crazy people, e-mail tfoutz@mines.edu or call Ty at 303-205-1155.

SCA

Fighter Practice: Tuesdays 7-9 pm in the Field House. Archery: Mondays 4-6pm on the Baseball field. Questions? Contact David at *dclement@mines.edu* or 303-215-6243.

Sober Drivers

Need a ride home on Friday or Saturday night between 9 p.m. and 3 a.m.? Call Kappa Sigma Sober Driver Program at (303) 279-9951. You must be within 15 minutes of campus.

Society of Women Engineers

The next SWE meeting is on Wednesday at noon in Coolbaugh 209. For more info, email aama@mines.edu

Springfest

All students are invited to attend ASCE/AGC's annual steel bridge competition on March 9. Presentations are at 10 a.m. in BB201. The bridge competition begins at 10:30 a.m. in West Lot at Brown Bldg. The BBQing will begin at 11:30 a.m. near the bridge competition. Food will be $2/person for all you can eat. Beverages will be provided.

Technology Fee

The technology fee Request for Proposals (RFP) has been posted to the tech. fee web page at www.mines.edu/Academic/computer/techfee This is the schedule for the Fall 2000 proposal process: March 10, Green Center 237 - Question & Answer Session. March 29, Proposal Deadline 5:00. April 13, Proposal review meeting. If you have additional questions, please contact Derek Wilson (dwilson) in the Computing Center.

Ultimate Frisbee Organization

Practices on Kafadar Commons every Tuesday and Wednesday at 4-5:30 p.m. All are welcome to come practice with us for competitive play against other schools. Also, official UFO CSM frisbees are available for $8. For more information contact Steve at (303) 271-9972 or *sgrigel@mines.edu*.

Waterpolo

If you don't need water wings to stay afloat in the pool, come join us for practice on Tuesdays and Thursdays from 7:45 to 9:45 p.m. and Saturdays from 4 to 6 p.m. Waterpolo is great exercise and swim suit season is right around the corner- what better way to get ready for Spring Break? And guys, where else will you be able to see women in bathing suits in February in Colorado? See you at Volks Gymnasium.

Women's Ultimate Frisbee Team

Want to have fun, make friends, and get in shape? Come be a part of Mines' first ever Women's Ultimate Frisbee Team. No experience is required. Practice is on Kafadar Commons from 4-6 p.m. Thursdays and 2-5:30 p.m. Sundays. For more information call Julie West at 303-278-7431.

CLASSIFIED ADS

Bartending JOBS are in Demand. The fun jobs. Earn $15-30/ hour Job placement assistance. Call Now!!! $199 Back-to-School Special ends soon. Call 303-758-5000 or 1-800-BAR-TEND

Browse icpt.com WIN a FREE trip for spring break "2000". ALL destinations offered. Trip Participants, Student Orgs & Campus Sales Reps wanted. Fabulous parties, hotels & prices. For reservations or Rep registration. Call Inter-Campus Programs 800-327-6013.

For Sale. Unopened MS Office 2000 Professional only $105.00. Call (303) 931-7468

For Sale. Specialized mtn bike $125, Epson inkjet printer $50, dinette table w/ 4 chairs $50, Pioneer laser disk player $25, CD rack $5, 303-384-3995

For Sale. 1996 Mazda Protege. Auto. Air. Clean car. Lots of recent improvements. $7,000 obo 215-1283.

For Sale. 1995 Pontiac Grand Am 2 door. From original owner. Excellent condition. $7550 firm. 215-1283

Help Wanted. Census Jobs! The U.S. Census Bureau is seeking temporary help to conduct the 2000 Census. Work in your own neighborhood with field positions starting at $12.75/ hour, paid training, and mileage reimbursement of 32.5 cents per mile. Employment consideration starts with a basic skills test, which we urge you to take before 3/18/00 to work in the largest Census operation of the year. If you are interested or have any questions, please call (303) 456-0027 for Jefferson & Douglas residents; all others call 1-888-325-7733.

Help Wanted. $8/ hour. Flexible schedule. Busy working mom needs help with light housekeeping. 279-5047.

Help Wanted. Mother's helper wanted. Very flexible part time. $7/ hour and must drive. Very close to campus. Call Anne at 303 278-1639, or cell 303 517-6726.

Help Wanted. Yard work, landscaping, and snow shoveling. Day labor, part-time work and summer jobs. Flexible to your schedule. 279-3955

House for Rent. Rooms Available with Common area: Upper Level: 1 Bedroom, $400.00 per month, 25% of utilities. Lower Level: 2 Bedroom with office space, separate entrance, 25% of utilities, $350 per month per bedroom, 2 blocks from CSM campus. Off street parking or garage. Huge yard with storage area. CSM STUDENTS ONLY. For more information please call CSM Foundation (303-273-3137).

MAZATLAN-WHOLESALE TO STUDENTS. 24 years of wholesale trips to Mexico. Days Inn, now Howard Johnson-$369, Suites $389. Las Palmas-$389, Balboa Towers-$449, El Cid-$499. $50 deposit- CALL FREE MEXICO TOURS 800-722-2296, www.mex-tours.com

Room for Rent. June- Dec. '00 1 female needed to share 4 bed house 2 blocks from Green Center. Super cheap. Call Whitney 278-7431.

Roommate Wanted. Older home in downtown Golden. No smokers or drinkers. Big fenced yard and satellite dish. $500 includes utilities. Call 303-279-0888 and leave message.

Spring Break 2000 MAZATLAN & CANCUN from **$399** 7 Nights, 14 Free Meals, 23 Hours of Free Drinks Go With The Biggest and Best. **Play Before U Pay. 6 Month Payment Plan Available.** Ask How!! 1-800-395-4896 www.collegetours.com